Brighton Area Schools Board of Education Regular Meeting Monday, March 23, 2009 7 PM - BECC

AGENDA

- I. Call to Order
- II. Pledge of Allegiance
- III. Roll Call
- IV. Approval of Agenda
- V. Recognition
 - A. Michelle Madden
 - B. Student Athletes, Winter Season
 - C. Scranton Middle School "Morning Show"- Tom Nisbet
- VI. Call to the Public
 - A. Comment Card

Time extended to provide individuals an opportunity to address the Board of Education. Time allotment is up to 30 minutes, individuals may speak for three minutes each. Individuals must identify themselves by name and address. The Board may hear issues, but is not required to answer questions or make statements and will refer most issues on to the Superintendent.

- VII. Old Business
- VIII. Consent Agenda
 - A. Bills of February 28-March 12, 2009
 - B. Bills of March 19, 2009
 - C. Minutes of March 9, 2009
 - D. Minutes of March 12, 2009
- IX. New Business
 - A. Curriculum
 - 1. K-5 Science Curriculum
 - B. Finance
 - 1. Director of Finance Position
 - C. Human Resources
 - D. Other
 - 1. High School Research Team Report, Special Education
 - 2. Resolution to Dissolve Renaissance Alternative School
 - 3. Schools of Choice 2009/2010
 - 4. Resolution, LESA Consortium for Copier Equipment
 - 5. Acceptance of Donation
- X. Communications and Reports
 - A. From Superintendent
 - B. From Board
 - C. Announcements

This is a meeting of the Board of Education in public for the purpose of conducting the School District's business and is not to be considered a public community meeting. There is time for public participation during the meeting as indicated in agenda item "Call to the Public."

Brighton Area Schools Board of Education Regular Meeting Monday, March 9, 2009 7 PM - BECC

Minutes

I. Call to Order

The meeting was called to order by President Anderson at 7:02 p.m.

II. Pledge of Allegiance

III. Roll Call

Members present: William Anderson, Joe Carney, Jay Krause, Cheryl Leach, Beth Minert, Joyce Powers and Greg Rassel.

Also present: Interim Superintendent Riutta, Assistant Superintendent Maria Bolen, Interim Assistant Superintendent Peggy Moyer, Executive Director of Curriculum Baiba Jensen, Attorney William McCririe, staff, press and visitors.

IV. Approval of Agenda

Moved by Leach, supported by Krause to approve the agenda as presented. Voice vote: 7 ayes. Motion carried.

V. Recognition

VI. Call to the Public

Noreen Owens, SOC parent from Hartland, addressed the Board concerning savings from closing Miller. She also asked that an outside committee be convened to conduct an analysis of the district and make recommendations concerning district efficiencies.

Bob Brown addressed the Board concerning school boundaries for attendance areas.

Nancy DeWolf addressed the Board concerning the recommendation to close Miller. She does not want to see a neighborhood elementary building closed.

Lisa Bozio addressed the Board concerning the closing of Miller, the replication of the Miller program at other buildings, schools of choice and that more families are being disrupted with the configuration of 5/6 and 7/8 buildings.

Courtney Bellanti addressed her concerns of the financial data presented for Miller and Lindbom. She also stated that an outside committee should study the schools and make recommendations to the Board.

Mrs. Alraid addressed the Board concerning closing of Miller and replicating the program at all the elementary schools.

Mrs. Cardoni addressed the Board concerning there needs to be more of an effort to communicate with parents.

Keith Williams, Hornung parents, addressed the inconsistency with staff wage increases and the district's deficit. He also stated that the 5/6 and 7/8 configurations causes disruption to many families. There is more of a financial savings if Lindbom is closed rather than Miller.

Steve Siddal addressed the Board questioned the data used in the Elementary Research Team's recommendation to closed a building.

Jodi Cook addressed the Board with her concerns related to the closing of a building.

Kelly Lovelady addressed the Board concerning closing a building.

Kelly Moustakeas addressed the Board with her issues such as transportation, extended day program, science center, VMI program, and moving costs that need to be resolved regarding the closing of Miller.

Jack Money asked that a building not be closed and that community members work with the district in addressing the deficit.

Jason Stanza addressed the Board concerning the closing of any building.

Mary Beth Wenzel stated that the Research Team had to consider academic and financial items before recommending that a building be closed. She further stated that academics had to come first.

Kelly Moustakeas asked the Trustees not to rush their decision in considering the Research Team's recommendation.

John Conely addressed the Board concerning the operational revenues and expenditures. He suggested that the budget be in order before the closing of a school.

Scott Turner indicated that he would close Lindbom and redistrict to keep the kindergarten program at Miller.

Gaylyn Ray Brown suggested the sooner a school district addresses early childhood problems and institutes interventions, special education costs can be reduced.

Sanford Ross suggested that closing Lindbom would increase class sizes throughout the district. Miller teachers will be relocated throughout the district's elementary buildings and still be teaching kindergarten.

Barry Goode, President of BEA and a member of the Leadership Team, stated it was his opinion that Leadership Team would have a say in reviewing the recommendation to close a building. He further suggested that the district's deficit is not due to employee wages, health care but rather due to inadequate funding levels from the state. In addition, he stated that cost savings haven't been proven and staffing efficiencies haven't occurred for years. It was his opinion that the sister school concept should be in place for the 2010 school year.

John Conely addressed the Board regarding Barry Goode's statements.

Steve Popa asked the Board to make the best decision possible and take sufficient time to make the decision.

VII. Old Business

VIII. Consent Agenda

A. Bills of February 13-27, 2009

Moved by Powers, supported by Rassel to approve the bills as presented. Voice vote: 7 ayes. Motion carried.

B. Minutes of February 23, 2009

Moved by Rassel, supported by Carney to approve the minutes as presented. Voice vote: 7 ayes. Motion carried.

IX. New Business

A. Other

1. 5/6 and 7/8 Reconfiguration Report and Recommendation
The Board received an update on the 5/6 and 7/8 reconfiguration recommendation. Mr. Brenner reviewed academic teams, encore classes, building logistics, lunch periods, staffing levels (55.83 currently and reduced to 51 FTE for 2009/10 school year.), student enrollment projections, and fine arts.

Mrs. Minert asked about moving costs and outside equipment for fifth grade students. It was reported that the Sinking Fund is \$3.3 million.

Mrs. Powers is concerned at less art and physical education at this level but would support the reconfiguration.

Mr. Vecchioni reviewed the 7/8 configuration and stated that the current staffing level is 47.64 and the 2009/10 year would increase staffing by .5 FTE which would give the 7/8 building 2 counselors, 1 media and 1 tech support position. The staffing ration for all core content classes would be 30:1 ratio. He also discussed the mock scheduling process, common core electives, transportation savings, special education costs and projected student enrollments.

Moved by Rassel, supported by Krause to adopt the 5/6 and 7/8 building reconfiguration recommendations as presented. Voice vote: 7 ayes. Motion carried.

2. Elementary Research Team Recommendation

Mrs. Riutta addressed the Board concerning the Elementary Research Team's recommendation, the purpose of the Research Teams, and the budget deficit.

Mrs. Minert shared her concerns about the recommendation to close Miller.

Moved by Rassel, supported by Carney to adopt the K-4 building configuration and close the Miller Early Childhood Center. Roll call vote: 6 ayes, 1 nay-Minert. Motion carried.

Meeting recessed at 9:30 p.m. Meeting reconvened at 9:45 p.m.

3. Resolution, LESA Consortium Agreement for Copier Equipment
Mr. Liu presented the LESA Consortium Agreement for copier equipment.
The consortium provides the mechanism to obtain machines and contract services at more favorable rates. The agreement will be placed on the March 23, 2009 agenda for Board consideration.

B. Finance

1. Financial Statements, February 2009 - All Funds

Assistant Superintendent Maria Bolen presented a draft of the financial statements so that the Board will have "real time" monthly budget information on each fund.

2. Cash Flow Borrowing

Mrs. Bolen reported that there were no purchasers of the district's \$9.2 million borrowing note. The district requested advances on its state aid payments for March and April to address cash flow needs. The plan to participate in the Michigan Municipal Bond Authority's next borrowing opportunity occurs in early April. The resolution to participate in the MMBA was presented for Board consideration.

Moved by Rassel, supported by Leach to adopt the Resolution as presented. Voice vote: 7 ayes. Motion carried.

3. Deficit Reduction Plan

The first draft of the Deficit Reduction Plan was presented for review and discussion. There is a \$323,000 savings for the 2008/09 year. The district will continue to explore the sister school concept and other avenues to reduce the deficit.

Moved by Rassel, supported by Carney to adopt the conceptual Deficit Reduction Plan as presented. Voice vote: 7 ayes. Motion carried.

C. Curriculum

1. Resolution, LATEC

The LATEC Resolution expires June 30, 2010 but the agreement requires that a successor agreement be in place by February 28, 2009. The agreement has been presented to the county superintendents for review and has been submitted to legal counsel for review.

Moved by Krause, supported by Rassel to adopt the LATEC Resolution which extends the time line for negotiating a successor agreement from February 28, 2009 to April 30, 2009. Voice vote: 7 ayes. Motion carried.

D. Human Resources

- 1. Leave Request Moved by Leach, supported by Minert to approve the general leave of absence received from Jennifer Ziewacz for the 2009/10 school year. Voice vote: 7 ayes. Motion carried.
- 2. Resignation Moved by Powers, supported by Krause to accept the resignation Erin Mastroianni effective June 30, 2009 with appreciation for her service to Brighton Area Schools. Voice vote: 7 ayes. Motion carried.
- 3. Resignations for Retirement Purposes Moved by Powers, supported by Rassel to accept the retirement resignations of Norm Lampi, Kathy Brownlee and Mary Ann Herek with regret and appreciation of their service to the Brighton Area Schools. Voice vote: 7 ayes. Motion carried.

X. Communications and Reports

A. From Superintendent

- 1. Mrs. Riutta reminded the Board of the March 25, 2009 Livingston County School Board Association Dinner meeting.
- 2. Moved by Rassel, supported by Krause to reschedule the regular April 14, 2009 Board meeting to April 16, 2009 at 7 p.m. in the Board Room at BECC, 125 S. Church Street. Voice vote: 7 ayes. Motion carried.

The Board will conduct a work session on March 12, 2009 for the purpose of meeting with Mike Wilmot, Michigan Leadership Institute, regarding the Superintendent Search process.

B. From Board

- 1. Joe Carney, Jay Krause and Beth Minert will be in Lansing for the Legislative Breakfast.
- 2. The Finance and Human Resource Committees' minutes were enclosed in the Board packet.

C. Announcements

Meeting adjourned at 10:17 p.m.

Date Approved:	
Approved by:	
William R. Anderson, President	Elizabeth Minert, Secretary
	(Sheri Lohmiller Recorder)

Brighton Area Schools Board of Education Special Meeting Thursday, March 12, 2009 7 PM - BECC

Minutes

I. Call to Order

The meeting was called to order by President Anderson at 7:05 p.m. Members present: William Anderson, Joe Carney, Jay Krause, Cheryl Leach, Beth Minert, Joyce Powers and Greg Rassel. Also present: Interim Superintendent Riutta, staff, press and visitors.

- II. Pledge of Allegiance
- III. Call to the Public No comments.

IV. Work Session, Superintendent Search

Mike Wilmot, Michigan Leadership Institute, reviewed the proposed search time line with the Board.

The first step in the process is to identify the stakeholders and hold open forums to solicit points of pride for the district to use in the search process and further, to provide the opportunity for public input on the qualities the community would like to see used in developing the superintendent search profile. Forums will be scheduled with the stakeholders on March 23, 2009 beginning at 8:00 am. Mr. Wilmot will compile the information gathered at the forums and present the information to the board.

Mr. Wilmot reviewed the search process including advertising the position, acceptance of applications, review of the applications, development of interview questions, interview schedules, site visits and final selection.

The Board discussed the time line and the search process.

Moved by Leach, supported by Carney to adjourn.

Meeting adjourned at 8:10 p.m.

Date Approved:	
Approved by:	
William R. Anderson, President	Elizabeth Minert, Secretary
	(Sheri Lohmiller, Recorder)

V.



TO:

Trustees, Board of Education

FROM:

Bonnie P. Riutta, Interim Superintendent of Schools

RE:

Recognition

DATE:

March 18, 2009

Shining Stars

Michelle Madden

Michelle a teacher at Scranton Middle School and Girls Assistant Softball Coach, was elected by the Michigan Softball Coaches Association in February as Assistant Coach of the year. She is a Brighton Alum and has spent the last twenty years as Assistant Coach with Coach Pam Lee Campbell.

Winter Student Athletes

James Koss-Senior, 3rd Place in State Competition, Boy's Bowling

Girl's Ski Team Qualified for States and Placed 9th

Carrie Fisher

Chrissy Fisher

Louise Gentner

Stephanie Haselhuhn

Sophia Shinsky

Margaret Smith

Ashton Street

Cameron McCririe-Senior, State Qualifier Boy's Ski

Girl's Gymnastics Qualified for States and Finished 12th

Alexandra Geddis-McCririe - Freshman

Kendra Hardy - Freshman

Marina Moretti - Sophomore

Meredith Robinson - Freshman

Emily Rose - Freshman

April Szuma - Junior

Tiffeny Wysocki - Senior

Recognition, March 23, 2009 Page 2

Boy's Swimming, Qualified for States
Ryan Buck - Senior
John Childers - Senior
Andrew Graetzel - Senior
Michael Griffith - Junior
Matt Lloyd - Sophomore
Jacob Lunau - Junior
Jared Price - Junior

Boy's Wrestling, Qualified for States Travis Hernandez - Senior Kenneth Richmond - Junior, 8th in state Grant Pizzo - Senior, 2nd in state

Scranton Middle School's "Morning Show"

Tom Nesbitt has started a Scranton Middle School "Morning Show". He will be present to share this unique program that features our students and their communication skills.

VIII.A.B.C.D.



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Trustees, Board of Education

FROM:

Bonnie P. Riutta, Interim Superintendent of Schools

RE:

Consent Agenda

DATE:

Motion

March 18, 2009

The bills of February 28-March 12 and March 19, 2009 and the minutes of March 9 and 12, 2009 are presented for your consideration under the Consent Agenda.

The bills of March 19 will be sent via email after the 3:00 pm check run due the number of days before the next scheduled meeting which will be April 16.

Moved by: Supported by: To approve the consent agenda as presented. Voice vote: ____ Ayes ____ Nays

Check Register Feb 28 through Mar 12, 2009

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Check Register Mar 13 through Mar 19, 2009

BRIGHTON AREA SCHOOLS

PAGE 1 03/19/09	INVOICE DESCRIPTION	LIGHTING RETROFIT#18 LESS DISC	CATHERINE GECOSKY	FS/BROWDER CELL 2/10	FS EQ REPR/OVEN/HS FS EQ REPR/WARMER/HS FS EQ REPR/HOSES	7000 7000 7000 7000 7000 7000 7000 700
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BRIGHTON AREA SCHOOLS ACCTS PAYABLE CHECK REGISTER FOR 03/13/09 THROUGH 03/19/09

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BRIGHTON AREA SCHOOLS

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BRIGHTON AREA SCHOOLS ACCTS PAYABLE CHECK REGISTER FOR 03/13/09 THROUGH 03/19/09

03/19/09	INVOICE DESCRIPTION	BSO - SUPPLIES	PHONES-2/10 INV BRIGHTON SCHOOLS 3/7 PHONE SERV/FEB PHONE SERV/MAR BOILER ALARM 3/7	Y WCRESA/MAR TECH/6 PHONES-2/10 T1 LINE/MAR	BUS GARAGE DR MNT/08	RUBBISH&RECYCLE/MAR	EQUIP CHRGS 2/10	FEB NATURAL GAS	ELECT/11 METERS/JAN STREET LIGHTING/FEB	MAINT OFF SUP MAINT OFF SUP	MAINT&GRNDS/UNIFORMS MAINT SUP MAINT SUP MAINT SUP MAINT SUP MAINT SUP MAINT SUP
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IX.A.1.



TO:

Trustees, Board of Education

FROM:

Bonnie P. Riutta, Interim Superintendent of Schools

RE:

K-5 Science Curriculum

DATE:

March 18, 2009

The K-5 Science curriculum realignment proposal is presented for Board discussion. Mrs. Liz Larwa, Spencer teacher, served on the state committee that developed Michigan's elementary science standards due to the new state mandated curriculum requirements.

The proposal has been reviewed by the district Curriculum Council and the Board Curriculum Committee. This item will be placed on the April 16, 2009 agenda for Board consideration.

March 18, 2009



TO:

Bonnie Riutta

Baiba Jensen Executive Director for Curriculum Services

FROM:

Baiba Jensen

RE:

Elementary Science Curriculum

One of the Board of Education goals for curriculum this year was the realignment of curriculum areas that have changed due to State mandated curriculum requirements. Last year the State of Michigan came out with new Grade Level Content Expectations for science and secondary science courses were realigned. This year we worked with the elementary level standards.

Liz Larwa, 4th grade teacher at Spencer, has been an integral part of the State Committee that developed Michigan's elementary science standards. She agreed to provide leadership to transition and realign our curriculum using existing materials as much as possible. Grade level representatives from all buildings worked with her to accomplish this task.

The vast majority of our resources from the 2001 science adoption were moved to appropriate grade levels and supplementary materials for the few gaps we do have will be funded through the Curriculum Office budget.

Curriculum Council and the Board Curriculum Sub-Committee have approved the attached K-5 science curriculum realignment proposal. I am requesting this be placed on the March 23, 2009 Board agenda for discussion.

jdl Attachment

Brighton Area Schools

K – 5 Science Curriculum March, 2009

K-5 SCIENCE

2009 - 2010 PLAN

GRADE 5 RESOURCES				
GRADE 5	EVOLUTION AND TRAITS OF ORGANISMS (new)	POSITION AND MOTION OF OBJECTS IN THE SKY (new)	ELECTRICITY AND MAGNETISM (old)	ANIMAL SYSTEMS (new)
GRADE 4 RESOURCES				
GRADE 4	EARTH, SUN, MOON (old)	STRUCTURES AND FUNCTIONS (old)	ELECTRICITY AND MAGNETISM (new)	PROPERTIES AND CHANGES IN MATTER (new)
GRADE 3 RESOURCES				
GRADE 3	SOUND AND LIGHT (old)	STRUCTURES AND FUNCTIONS (new)	CHANGES IN MOTION (new)	EARTH MATERIALS CHANGE AND RESOURCES (new)
GRADE 2 RESOURCES				
GRADE 2	MEASUREMENT OF PROPERTIES	LIFE CYCLES OF ANIMALS	USES AND PROPERTIES OF WATER	EARTH SURFACE FEATURES
GRADE 1 RESOURCES		-		
GRADE 1	SORTING BY PROPERTIES	LIFE CYCLES OF ANIMALS	WEATHER	SUNS WARMS THE EARTH
GRADE K RESOURCES				
GRADE K	МҮ ЕАКТН	BASIC NEEDS OF LIVING THINGS	OBSERVATIONS WITH SENSES	PUSHES AND PULLS

K-5 SCIENCE

2010-2011 PLAN

GRADE 5 RESOURCES				
	EVOLUTION AND TRAITS OF ORGANISMS	POSITION AND MOTION OF OBJECTS IN THE SKY	FORCES AND MOTION (?) (new)	ANIMAL SYSTEMS
GRADE 4 RESOURCES				
GRADE 4	EARTH, SUN, MOON	ECOSYSTEMS (?) (new)	ELECTRICITY AND MAGNETISM	PROPERTIES AND CHANGES IN MATTER
GRADE 3 RESOURCES				
GRADE 3	SOUND AND LIGHT	STRUCTURES AND FUNCTIONS	CHANGES IN MOTION	EARTH MATERIALS CHANGE AND RESOURCES
GRADE 2 RESOURCES				
GRADE 2	MEASUREMENT OF PROPERTIES	PLANT LIFE (?)	USES AND PROPERTIES OF WATER	EARTH SURFACE FEATURES
GRADE 1 RESOURCES				
GRADE 1	SORTING BY PROPERTIES	LIFE CYCLES OF ANIMALS	WEATHER	SUNS WARMS THE EARTH
GRADE K RESOURCES	·			
GRADE K	MY EARTH	BASIC NEEDS OF LIVING THINGS	OBSERVATIONS WITH SENSES	PULLS PULLS

Kindergarten

Observing With Senses

EXPECTATIONS	MATERIALS	ACTIVITIES
S.IP.00.11 Make purposeful observation of the natural world using the appropriate senses.	Light Light and Shadow Patterns Sort It Out Sound Watching the Weather What Can Change	

Pushes and Pulls

EXPECTATIONS	MATERIALS	ACTIVITIES
P.FM.00.11 Describe the	Balance and Motion	
position of an object (above,	Push or Pull	
below, in front of, behind, on)		
in relation to other objects.		
P.FM.00.12 Describe the		
direction of a moving object		
(for example: away from or		
closer to) from different		
observers' view.		
P.FM.00.31 Demonstrate		
pushes and pulls on objects		
that can move.		
P.FM.00.32 Observe that		
objects initially at rest will		
move in the direction of a		
push or a pull.		
P.FM.00.33 Observe how		
pushes and pulls can change		
the speed or direction of		
moving objects.		
P.FM.00.34 Observe how the		
shape and mass of an object		
can affect motion.		

Basic Needs of Living Things

EXPECTATIONS	MATERIALS	ACTIVITIES
L.OL.00.11 Recognize that	Animals and Their Babies	
living things have basic needs.	Ants	
L.OL.00.12 Identify and	Beaks	
compare living and nonliving	Fly, Butterfly	
things.	Fur, Feathers, Scales, Skin	
L.SE.00.12 Describe how earth	Grow, Seed Grow	·
materials contribute to plant	How Animals Move	
and animal life.	Living Things Need Water	
	Look at the Tree	
	Snails	
	Squirrels	

My Earth

EXPECTATIONS	MATERIALS	ACTIVITIES
E.SE.00.11 Identify earth	Fall	
materials that occur in nature	A Pond	
(rocks, sand, soil, water).	Rocks	
1	Spring, Summer, Fall, Winter	
	In Spring	
	In Summer	
	Our Earth	
	Water Changes	
	We Need Water	
	Winter	

First Grade

Sorting by Properties

EXPECTATIONS	MATERIALS	ACTIVITIES
P.PM.01.11 Demonstrate the	Grandma's Buttons	
ability to sort objects according to observable properties such as color,	Math Manipulatives	
shape, size, sinking and	SCIIS	
floating.		
	AIMS	
	Objects in Nature	
	Big Books	
P.PM.01.21 Demonstrate that water as a solid keeps its own shape.	Experimentation	
P.PM.01.22 Demonstrate that		
water as a liquid takes of the		
shape of various containers. P.PM.01.31 Identify materials	AIMS – Mostly Magnets	
that are attracted by magnets.		
P.PM.01.32 Observe that like	Big Book – Mystery of	
poles of a magnet repel and	Magnets	
unlike poles of a magnet attract.	Magnets	

Animal Life

EXPECTATIONS	MATERIALS	ACTIVITIES
L.OL.01.13 Identify the needs of animals.	Big Book and Guide - Animals and Their Babies	
	I Can Make It. I Can Read It	
L.OL.01.21 Describe the life cycle of animals including the following stages: egg, young,	FOSS Kit - Insects	

characteristics (for example:		
body coverings, beak shape,	Science Alive!	
number of legs, body parts)		
that are passed from parents	AIMS	
to young.		
L.HE.01.12 Classify young		
animals based on		
characteristics that are passed		
on from parents		
(dogs/puppies, cats/kittens,		
cows/calves, chickens/chicks).		

Weather

EXPECTATIONS	MATERIALS	ACTIVITIES
L.ES.01.21 Compare daily		Calendar
changes in the weather		Graphing
related to temperature (cold,		
hot, warm, cool); cloud cover	I Can Make It. I Can Read It. –	
(clear, cloudy, partly cloudy,	Wild Weather	
foggy); precipitation (rain,		
snow, hail, freezing rain);	Big Books	
wind (breezy, windy, calm).		
E.ES.01.31 Identify the tools		
that might be used to		
measure temperature,		
precipitation, cloud cover, and		
wind.		
E.ES.01.32 Observe and		
collect data of weather		
conditions over a period of		
time.		

The Sun Warms the Earth

EXPECTATIONS	MATERIALS	ACTIVITIES
E.ES.01.11 Identify the sun as the most important source of heat, which warms the land, air, and water on the Earth. E.ES.01.12 Demonstrate the importance of sunlight and warmth in plant growth.		
E.ES.01.22 Describe and compare weather related to the four seasons in terms of temperature, cloud cover, precipitation, and wind. E.ES.01.23 Identify severe weather characteristics. E.ES.01.24 Describe precautions that should be taken for human safety during severe weather conditions (thunder and lightning, strong winds, and heavy precipitation).	Pocket books AIMS	

Second Grade

Measurement of Properties

EXPECTATIONS	MATERIALS	ACTIVITIES
P.PM.02.12 Describe objects	FOSS Kit –	
and substances according to	Solids and Liquids	
their properties (color, size,		
texture, hardness, liquid or		
solid, sinking or floating).		
P.PM.02.13 Measure the		
length of objects using rulers		
(centimeters) and meter sticks		
(meters).		
P.PM.02.14 Measure the		
volume of liquids using		
common measuring tools		
(measuring cups, measuring		
spoons, graduated cylinders,		
and beakers).		
P.PM.02.15 Compare objects		
using a balance.		
P.PM.02.41 Recognize that	FOSS Kit –	
some objects are composed	Solids and Liquids	
of single substances (water,	(part of kit)	
sugar, salt) and others are		
composed of more than one		
substance (salt and pepper,		
mixed dry beans).		

Plant Life

EXPECTATIONS	MATERIALS	ACTIVITIES
L.OL.02.14 Identify the needs of plants. L.OL.02.22 Describe the life cycle of familiar flowering plants including the following stages: seeds, plant, flower, and fruit. L.HE.02.13 Identify characteristics of plants (for example: leaf shape, flower type, color, size) that are passed on from parent to young.	FOSS Kit – New Plants	

Earth Surface Features

EXPECTATIONS	MATERIALS	ACTIVITIES
E.SE.02.21 Describe the major landforms of the surface of the Earth (mountains, plains,	AIMS – <i>Primary Earth</i> p. vi – 23, 91 – 95	
plateaus, valleys, hills). E.FE.02.21 Describe how rain collects on the surface of the	Mountains* Follow the Water From Brook	
Earth and flows downhill into bodies of water (streams, rivers, lakes, oceans) or into	to Ocean* Landforms in a Park*	
the ground. E.FE.02.22 Describe the major bodies of water on the Earth's	Geography Terms Poster*	
surface (lakes, ponds, oceans, rivers, streams).	Stream Table Kit*	

^{*}Materials not yet purchased

Uses and Properties of Water

EXPECTATIONS	MATERIALS	ACTIVITIES
E.FE.02.11 Identify water	FOSS Kit – Solids and Liquids	
sources (wells, springs, lakes,	(part of kit)	
rivers, oceans).		
E.FE.02.12 Identify household		
uses of water (drinking,		
cleaning, food preparation).		
E.FE.02.13 Describe		
properties of water as a liquid		
(visible, flowing, shape of		
container) and recognize rain,		
dew, and fog as water in its		
liquid state.		
E.FE.02.14 Describe the		
properties of water as a solid		
(hard, visible, frozen, icy) and		
recognize ice, snow and hail		
as water in its solid state.		

Third Grade

Changes in Motion

EXPECTATIONS	MATERIALS	ACTIVITIES
P.FM.03.22 Identify the force that pulls objects towards the Earth. P.FM.03.35 Describe how a push or a pull is a force. P.FM.03.36 Relate a change in motion of an object to the force that caused the change in motion. P.FM.03.37 Demonstrate how the change in motion of an object is related to the strength of the force acting upon the object and to the weight of the object. P.FM.03.38 Demonstrate when an object does not move in response to a force, it is because another force is acting on it.	Science Horizons – Third Grade p. 182 – 201	K'Nex Kits
P.FM.03.41 Describe the motion of objects in terms of the path and direction. P.FM.03.42 Identify changes in motion (change direction speed up, slowing down). P.FM.03.43 Relate the speed of an object to the distance it travels in a standard amount of time.	Rally Round the Room – "Pieces and Patterns in Math and Science"	

Light and Sound

EXPECTATIONS	MATERIALS	ACTIVITIES
P.EN.03.11 Identify light and	Science Horizons –	
sound as forms of energy.	Third Grade p. 208 -228	
P.EN.03.21 Demonstrate that		
light travels in a straight path		
and that shadows are made		
by placing an object in a path		
of light.		
P.EN.03.22 Describe what		
happens to light when it		
travels from air to water (a		
straw half in water and half in		
the air looks bent).		
P.PM.03.51 Demonstrate how		
some materials are heated		
more than others by light that		
shines on them.		
P.PM.03.52 Explain how we		
need light to see objects: light		
from a source reflects off		
objects and enters our eyes.		
P.EN.03.31 Relate sounds to	FOSS Kit – Physics of Sound	
their sources of vibrations (for		
example: a musical note		
produced by plucking a guitar		
string, the sounds of a drum		
made by striking a		
drumhead).		
P.EN.03.32 Distinguish the		
effect of fast or slow		
vibrations as pitch.		

Structures and Functions of Living Things

EXPECTATIONS	MATERIALS	ACTIVITIES
L.OL.03.32 Identify and	FOSS Kit – Structures of Living	
compare structures in animals	Things	
used for controlling body		
temperature, support,		
movement, food getting, and		
protection (fur, wings, teeth,		
claws, scales).		
L.EV.03.13 Relate		
characteristics and functions		
of observable body parts to		
the ability of animals to live in		
their environment (for		
example: sharp teeth, claws,		
odor, body coverings).		
L.OL.03.42 Classify animals on	Science Horizons –	
the basis of observable	Third Grade p. 66 - 84	
physical characteristics		
(backbone, body covering,		
limbs).		
L.OL.03.31 Describe the	FOSS Kit – Structures of Living	
function of the following plant	Things	
parts: flower, stem, root, and		
leaf.	Plants by Evan Moor	
L. EV.03.11 Relate		
characteristics and functions	AIMS: The Budding Botanist	
of observable parts in a		
variety of plants that allow		
them to live in their		
environment (for example:		
leaf shape, thorns, odor,		
color).		
L.OL.03.41 Classify plants on	Science Horizons –	
the basis of observable	Third Grade p. 32 -58	
physical characteristics (roots	,	
leaves, stems, and flowers).		

Earth Materials, Change, and Resources

EXPECTATIONS	MATERIALS	ACTIVITIES
E.ES.03.41 Identify natural resources (metals, fuels, fresh water, soil, and forests). E.ES.03.42 Classify renewable (fresh water, forests) and non-renewable (fuels, metals)	Project Wild p. 190, 82, 306, 300, 90	
resources. E.ES.03.43 Describe ways humans are protecting, extending, and restoring resources (recycle, reuse,		
reduce, renewal). E.ES.03.44 Recognize that paper, metal, glass, and some		
plastics can be recycled. E.ES.03.51 Describe ways humans are dependent on the	Science Horizons – Third Grade p. 292 – 296	
natural environment (forests, water, clean air, earth materials) and constructed environments (homes,		
neighborhoods, shopping malls, factories, and industry). E.ES.03.52 Describe helpful or	Environmental Issues Teacher Created Materials	
harmful effects of humans on the environment (garbage, habitat destruction, land		
management, renewable and non-renewable resources).		
E.SE.03.13 Recognize and describe different types of earth materials (mineral, rock,	FOSS Kit – Earth Materials	
clay, boulder, gravel, sand, soil).		
E.SE.03.14 Recognize that rocks are made up of minerals.		
E.SE.03.22 Identify and describe natural causes of change in the Earth's surface	Science Horizons – Third Grade p.276 – 291 Naturescope	

on, glaciers, volcanoes, lides, and earthquakes. 03.31 Identify earth rials used to construct common objects (bricks, ings, roads, glass). 03.32 Describe how rials taken from Earth be used as fuels for ing and transportation.	Habitat For Humanity HS Consortium Class Building		_
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Fourth Grade

Relationships and Requirements of Living Things

EXPECTATIONS	MATERIALS	ACTIVITIES
L.OL.04.15 Determine that	Science Horizons –	
plants require air, water, and	Fourth Grade	
a source of energy and	p. 126 – 144	
building material for growth		
and repair.	Food Chains and Food Webs	
L.OL.04.16 Determine that	Crabtree Publishing	
animals require air, water,		
and a source of energy and	Project Wild	
building material for growth		
and repair.	SCIIS – Food Chains and Food	
L.EC.04.11 Identify organisms	Webs	
as part of a food chain or food		
web.		
L.EC.04.21 Explain how		
environmental changes can		
cause a change in the food		
web.		
L.EV.O4.21 Identify individual		
differences (color, leg length,		
size, wing size) in organisms of		
the same kind.		
L.EV.04.22 Identify how		
variations in physical		
characteristics of individual		
organisms give them an		
advantage for survival and		
reproduction.		
E.ST.04.31 Explain how fossils	Science Plus –	
provide evidence of the	Sixth Grade	
Earth's past.	p. 360-369	
E.ST.04.32 Compare and		
contrast life forms found in	Science Horizons –	
fossils and organisms that	Third Grade	
exist today.	"Digging Up Dinosaurs"	
	Science Horizons –	
	22.2.700 710172073	<u> </u>

Fourth Grade	
p. 308 - 311	

Earth, Sun, Moon

EXPECTATIONS	MATERIALS	ACTIVITIES
E.ST.04.11 Identify the sun and the moon as common objects in the sky. E.ST.04.12 Compare and contrast the characteristics of the sun, moon, and Earth, including relative distances and abilities to support life. E.ST.04.21 Describe the orbit of the Earth around the sun as it defines a year. E.ST.04.22 Explain that the spin of the Earth creates day and night. E.ST.04.23 Describe the motion of the moon around the Earth. E.ST.04.24 Explain how the visible shape of the moon follows a predictable cycle which takes approximately one month.	Science Horizons — Fourth Grade p. 260 — 264 Science Horizons — Third Grade p. 248 - 257 AIMS	Star Lab
1		

Electricity and Magnetism

EXPECTATIONS	MATERIALS	ACTIVITIES
P.EN.04.12 Identify heat and	Science Horizons –	
electricity as forms of energy.	Fourth Grade	
P.EN.04.41 Demonstrate how	p. 220 – 240	
temperature can be increased		
in a substance by adding	Holt Science and Technology –	
energy.	Electricity and Magnetism	
P.EN.04.42 Describe heat as	p. 17, 18	
the energy produced when		
substances burn, certain kinds		
of materials rub against each		
other, and when electricity		
flows through wire.		
P.EN.04.43 Describe how heat		
is produced through		
electricity, rubbing, and		
burning.		
P.EN.04.51 Demonstrate how	Holt Science and Technology —	
electrical energy is transferred	Electricity and Magnetism	
and changed through the use	p. 22 - 25	
of a simple circuit.		
P.EN.04.52 Demonstrate		
magnetic effects in a simple		
electric circuit.		
P.PM.04.53 Identify objects		
that are good conductors or		
poor conductors of heat and		
electricity.		
P.PM.04.33 Demonstrate	Holt Science and Technology —	
magnetic field by observing	Electricity and Magnetism	
the patterns formed with iron	p. 38 – 40, 43 - 45	
filings using a variety of		
magnets.		
P.PM.04.34 Demonstrate that		
magnetic objects are affected		
by the strength of the magnet		
and the distance from the		
magnet.		

Properties and Changes in Matter

EXPECTATIONS	MATERIALS	ACTIVITIES
P.PM.04.16 Measure the weight (spring scale) and mass (balances) in grams or kilograms. P.PM.04.17 Measure volume of liquids in milliliters and liters. P.PM.04.23 Compare and contrast the states (solid, liquid, and gas) of matter. P.PM.04.11 Explain how	Science Horizons – Fourth Grade p. 164 – 184 FOSS Kit – Mixtures and Solutions (parts of the kit that relate to measurement of changes in matter)	
matter can change from one state (solid, liquid, and gas) to another by heating and cooling.		

Fifth Grade

Position and Motion of Objects in the Sky

EXPECTATIONS	MATERIALS	ACTIVITIES
E.ES.05.61 Demonstrate and explain seasons using a	Science Horizons- Fourth Grade p. 266 - 271	
model. E.ES.05.62 Explain how the revolution of the Earth around the sun defines a year.	Science Horizons- Fifth Grade p. 434 - 436	
E.ST.05.11 Design a model of the solar system that shows the relative order and scale of the planets, dwarf planets, comets, and asteroids to the	Science Horizons- Fifth Grade p. 446 - 460	
sun. E.ST.05.21 Describe the motion of the planets and moons in terms of rotation on axis and orbits due to gravity. E.ST.05.22 Explain the phases of the moon. E.ST.05.23 Explain the apparent motion of the stars (constellations) and the sun across the sky. E.ST.05.24 Explain lunar and solar eclipses. E.ST.05.25 Explain the tides of the oceans as they relate to the gravitational pull and orbit of the moon.	Science Horizons- Fourth Grade p. 272 – 275 Science Horizons- Fourth Grade p. 276 - 280	Star Lab

Animal Systems

EXPECTATIONS	MATERIALS	ACTIVITIES
L.OL.05.41 Identify the general purpose of selected animal systems (digestive, circulatory, respiratory, skeletal, muscular, nervous, excretory, and reproductive).	Science Horizons — Fifth Grade p. 480 — 485, 494 — 504, 512 — 536	
L.OL.05.42 Explain how animal systems (digestive, circulatory, respiratory, skeletal, muscular, nervous, excretory, and reproductive) work together to perform selected activities.	Science Horizons – Fourth Grade p. 388 – 406, 414 - 432	

Evolution and Traits of Organisms

EXPECTATIONS	MATERIALS	ACTIVITIES
L.HE.05.11 Explain that both		
the environment and the		
genetics of the individual		
influence the traits of an		
individual.		
L.HE.05.12 Distinguish		
between inherited and		
acquired traits.		
L.EV.05.11 Explain how	Science Horizons –	
behavioral characteristics	Fourth Grade p. 100 - 118	
(adaptation, instinct, learning,		
habit) of animals help them to		
survive in their environment.		
L.EV.05.12 Describe the		
physical characteristics (traits)		
of organisms that help them		
to survive in their		
environment.		
L.EV.05.13 Describe how		
fossils provide evidence about		

how living things and	- VATE	
environmental conditions		
have changed.		
L.EV.05.14 Analyze the		
relationship of environmental		
change and catastrophic		
events (for example: volcanic		
eruption, floods, asteroid		
impact, tsunami) to species		
extinctions.		
L.EV.05.21 Relate the degree		
of similarity in anatomical		
features to the classification		
of contemporary organisms.		

Measuring Changes in Motion

EXPECTATIONS	MATERIALS	ACTIVITIES
P.FM.05.21 Distinguish	Science Horizons –	
between contact forces and	Fourth Grade p. 192 - 201	
non-contact forces.		
P.FM.05.22 Demonstrate	Science Horizons –	
contact and non-contact	Fifth Grade p. 232 - 245	
forces to change the motion		
of an object.		
P.FM.05.31 Describe what		
happens when two forces act		
on an object in the same or		
opposing directions.		
P.FM.05.32 Describe how		
constant motion is the result		
of balanced (zero net) forces.		
P.FM.05.33 Describe how		
changes in the motion of		
objects are caused by a		
nonzero net (unbalanced)		
force.		
P.FM.05.34 Relate the size of		
change in motion to the		
strength of unbalanced forces		
and the mass of the object.		

D FM OF 41 Evoluin the	AWIM (A World in Motion)
P.FM.05.41 Explain the	Wastlet (V. 140119 III III 191911)
motion of an object relative to	
a point of reference.	
P.FM.05.42 Describe the	
motion of an object in terms	
of distance, time and	
direction, as the object	
moves, and in relationship to	
other objects.	
P.FM.05.43 Demonstrate how	
motion can be measured and	
represented on a graph.	

Sample

SCIENCE

- Big Ideas
- Clarifications
- Inquiry
- Vocabulary
- Instruments
- Measurements

- Instructional Framework
- Enrichment
- Intervention
- Real World Context
- Literacy Integration
- Mathematics Integration



Third Grade Companion Document 3-Unit 2: Light and Sound

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3rd Grade Unit 2: Light and Sound

Content Statements and Expectations

Code	Statements & Expectations	Page
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P.EN.E.3	Sound - Vibrating objects produce sound. The pitch of sound varies by changing the rate of vibration.	5
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P.EN.03.32	Distinguish the effect of fast or slow vibrations as pitch.	5
P.PM.E.5	Conductive and Reflective Properties – Objects vary to the extent they absorb and reflect light energy and conduct heat and electricity.	6
P.PM.03.51	Demonstrate how some materials are heated more than others by light that shines on them.	6
P.PM.03.52	Explain how we need light to see objects: light from a source reflects off objects and enters our eyes.	7

3 - Unit 2: Light and Sound

Big Ideas (Key Concepts)

- Light and sound are forms of energy.
- Light and sound can be described by their properties.
- Light travels in a straight path.
- Vibrations produce sound.

Clarification of Content Expectations

Standard: Energy

Content Statement - P.EN.E.1 Forms of Energy - Heat, electricity, light, and sound are forms of energy.

Content Expectation

P.EN.03.11 Identify light and sound as forms of energy.

Instructional Clarifications

- 1. Identify means to recognize light and sound as forms of energy.
- 2. The term energy is difficult for third grade students to understand. It is not matter; it does not have mass. It takes energy to make things happen. Energy is the ability to cause change. Evidence of light as a form of energy is through heating. Evidence of sound as a form of energy is through the observation of vibrations.
- 3. Third grade students need only to observe (using appropriate senses) light and sound energy and describe how they cause change.
- 4. (Visible) light is necessary for life on Earth. It is essential for photosynthesis and gives colors to objects. Light energy from the sun is changed to heat energy on Earth and is used by plants and all living things. Our primary source of light energy is the sun.
- 5. Vibrating objects cause sound waves that can then cause other matter to vibrate.

Assessment Clarifications

- 1. Light is a form of energy. Most light energy comes from the sun.
- 2. Sound is a form of energy. Vibrating objects cause sound waves.
- 3. Energy is the ability to cause change. Evidence of light as a form of energy is through heating. Evidence of sound as a form of energy is through the observation of vibrations.

Content Statement - P.EN.E.2

Light Properties – Light travels in a straight path. Shadows result from light not being able to pass through an object. When light travels at an angle from one substance to another (air and water), it changes directions.

Content Expectations

P.EN.03.21 Demonstrate that light travels in a straight path and that shadows are made by placing an object in a path of light.

Instructional Clarifications

- 1. Demonstrate is to show through manipulation of materials, drawings, and written and verbal explanations that light travels in a straight path and shadows are made by placing an object in a path of light.
- 2. Light travels in straight paths, which move out from the source until they hit or interact with something. When light strikes an object, it is reflected, passes through or absorbed.
- 3. A shadow is formed when an opaque object blocks the path of light (does not allow light to pass through).
- 4. A common misconception is that shadows are independent of the object that causes them and that a light source and its effects are not separate.

Assessment Clarifications

- 1. Light travels in a straight path that moves out from a source until it hits something.
- 2. Shadows are made when an object is placed in the path of light.

P.EN.03.22 Describe what happens to light when it travels from air to water (a straw half in water and half in the air looks bent).

Instructional Clarifications

- 1. Describe means to tell or depict in spoken or written words the path of light when it travels from water to air or air to water.
- 2. Light travels at tremendous speeds. When it travels through transparent mediums such as glass, air, or water, it slows down. It slows down at different rates for different mediums. When it slows, light rays are bent as they pass through. This change is called refraction.
- 3. Students' experiences should include observations of objects in water, out of water, half in and half out of water. Students may investigate other transparent substances such as alcohol, oil, corn syrup.
- 4. Third graders do not need to understand why light bends (refraction). They only need to observe that objects appear to bend when observed through different mediums.

Assessment Clarification

1. Students' experiences should include observations of objects in water, out of water, half in and half out of water.

Content Statement – P.EN.E.3 Sound – Vibrating objects produce sound. The pitch of sound varies by changing the rate of vibration.

Content Expectations

P.EN.03.31 Relate sounds to their sources of vibrations (for example: a musical note produced by plucking a guitar string, the sounds of a drum made by striking a drumhead).

Instructional Clarifications

- 1. Relate means to establish an association or connection between sounds and their sources of vibration.
- 2. Vibrating objects produces sound waves.
- 3. The sound vibrations are transmitted to anything the vibrating object touches, including air.
- 4. Sound travels through matter; light travels through a vacuum or through matter. Sound cannot travel through outer space where there is no air (matter), but light can travel through outer space.
- 5. Sound waves travel out in every direction from a source. When a guitar string is plucked, the vibrating string pushes against the adjacent air molecules causing them to vibrate. The air molecules push against neighboring air molecules until the vibrating air molecules reach a receiver such as an eardrum.
- 6. Vibrations cause sound waves from a source such as guitar string or a drumhead.
- 7. A common misconception is that sound cannot travel through solids and liquids.
- 8. A common misconception is that sound can travel through a vacuum, such as space.
- 9. A common misconception is that sound can be produced without using any materials.
- 10.A common misconception is that hitting an object harder changes the pitch of the sound produced.

Assessment Clarifications

- 1. Vibrating objects produces sound.
- 2. Vibrations cause sound waves from a source such as a guitar string or a drumhead
- 3. The source of vibrations can include plucking, striking, hitting, etc.
- **P.EN.03.32:** Distinguish the effect of fast or slow vibrations as pitch.

Instructional Clarifications

- 1. Distinguish means to recognize or know the difference between a low and high pitch caused by slow or fast vibrations.
- 2. Sounds can have a high or low pitch.
- 3. Pitch depends on the speed of vibrations. An object that vibrates very fast sends more vibrations to the ear drum per second, and the brain

interprets it as a high pitch. When an object vibrates slowly, a lower pitch is heard.

4. Students' experiences include the plucking of guitar strings or other stringed instruments (high and low), stretching rubber bands to create high and low pitches.

Assessment Clarifications

1. Sounds can have a high or low pitch.

2. Slow vibrations produce a low pitch; fast vibrations produce a high pitch.

Standard: Properties of Matter

Content Statement - P.PM.E.5 Conductive and Reflective Properties - Objects vary to the extent they absorb and reflect light energy and conduct heat and electricity.

Content Expectations

P.PM.03.51 Demonstrate how some materials are heated more than others by light that shines on them.

Instructional Clarifications

1. Demonstrate is to show through manipulation of materials, drawings, and written and verbal explanations how some materials are heated more than others by light that shines on them.

2. Light energy can be converted to heat or thermal energy when certain

materials absorb it.

3. Dark materials absorb more of the visible spectrum of light. The absorbed light energy is converted and is released as heat energy. Since more of the spectrum is absorbed there is more energy that is converted to heat. Light colored materials absorb less and reflect more of the light spectrum (less energy) so less energy is released as heat.

4. Dark materials absorb more light energy; light colored materials reflect

more light energy.

- 5. Student experiences should include multiple opportunities to use light bulbs and sunlight to heat a variety of materials including light colored sand vs. soil, light colored paper vs. dark paper, light colored hat vs. dark hat.
- 6. Students' experiences include using a thermometer to compare temperatures in degrees Celsius. The emphasis for third graders is warmer and cooler.

7. This content expectation can easily be taught in conjunction with P.EN.03.2 - Light Properties.

8. A common misconception at this age is that while light is reflected by mirrors, it remains on other objects

Assessment Clarifications

- 1. Dark materials absorb more light energy; light colored materials reflect more light energy.
- 2. Assessment is restricted to the use light bulbs and sunlight to heat materials such as light colored sand vs. soil and light colored paper vs. dark paper.
- 3. Assessment is restricted to the use of a thermometer to compare temperatures in degrees Celsius (warmer, cooler, same).

P.PM.03.52 Explain how we need light to see objects: light from a source reflects off objects and enters our eyes.

Instructional Clarifications

- 1. Explain means to clearly describe by means of illustrations (drawing), demonstrations, written reports or verbally how we need light to see objects.
- 2. We see objects because they either emit light or reflect light.
- 3. Light travels in straight lines from a source such as the sun or a light bulb. When light strikes an object, it is reflected, absorbed, or it passes through the object.
- 4. When light is reflected or bounces off an object, the light waves travel in straight lines until they reach the eye. The light enters the eye through the pupil and we see the object.
- 5. This content expectation can easily be taught in conjunction with P.EN.03.2 Light Properties.
- 6. A common misconception at this grade level is that the eye gathers light.
- 7. A common misconception is that we can see in a completely darkened room.

Assessment Clarification

1. When light is reflected or bounces off an object, the light travels in straight lines until it reaches the eye. The light enters the eye and we see the object.

Inquiry Process, Inquiry Analysis and Communication, Reflection and Social Implications

Inquiry Process
S.TP.03.11 Make purposeful observations concerning sound and light
S.IP.03.12 Generate questions based on observations to understand sound
and light.
S.IP.03.13 Plan and conduct simple and fair investigations of sound and light.
S.IP.03.14 Manipulate simple tools that aid observation and data collection
in investigations of sound and light.
S.IP.03.15 Make accurate measurements with appropriate units for the
measurement tool.
S.IP.03.16 Construct simple charts and graphs from data and observations dealing with sound and light.
Inquiry Analysis and Communication
S.IA.03.11 Summarize information from data tables and graphs to answer
scientific questions about sound and light.
S.IA.03.12 Share ideas about sound and light through purposeful
conversation in collaborative groups.
S.IA.03.13 Communicate and present findings of observations and
investigations about sound and light using evidence.
Reflection and Social Implications
S.RS.03.11 Demonstrate scientific concepts concerning sound and light through various illustrations, performances, models, exhibits, and activities.
S.RS.03.14 Use data/samples as evidence to separate fact from opinion
regarding sound and light.
S.RS.03.15 Use evidence in making scientific decisions about sound and
light. S.RS.03.16 Identify technology associated with sound and light.
S.RS.U3.16 Identify technology associated with sound and light that may be solved
S.RS.03.17 Identify current problems on sound and light that may be solved
through the use of technology.
S.RS.03.17 Describe how people have contributed to the science of sound
and light throughout history and across cultures.

Vocabulary

Critically Important – State Assessable	Instructionally Useful
light path of light sound sound source light source forms of energy vibrations thermometer degrees Celsius light absorption light reflection shadow pitch sun as a source of energy effect	energy heat light rays light refraction opaque transparent translucent guitar drumhead

Instruments, Measurements, Representations

Temperature	Thermometer	Celsius
		Fahrenheit
keep track of findings thre While students are not ex	le students enter informationghout the investigations pected to measure angles means to find the size of a	in sound and light. in degrees, they should

Instructional Framework

The following Instructional Framework is an effort to clarify possible units within the K-7 Science Grade Level Content Expectations. The Instructional Framework provides descriptions of instructional activities that are appropriate for inquiry science in the classroom and meet the instructional goals. Included are brief descriptions of multiple activities that provide the learner with opportunities for exploration and observation, planning and conducting investigations, presenting findings, and expanding thinking beyond the classroom. The Instructional Framework is NOT a step-by-step instructional manual, but a guide intended to help teachers and curriculum developers design their own lesson plans, select useful and appropriate resources and create assessments that are aligned with the grade level science curriculum for the State of Michigan.

Instructional Example - Light Energy

Light Energy

Forms of Energy: P.EN.03.11

Light Properties: P.EN.03.21, P.EN.03.22

Conductive and Reflective Properties: P.PM.03.51, P.PM.03.52

Objectives

- Make observations about how light travels in straight lines.
- Demonstrate how a shadow is formed.
- Make observations of light traveling through air and water and of light changing direction.
- Measure differences in temperatures of some materials when light shines on them.
- Explain how light is reflected from objects and enters our eyes in order for us to see those objects.

Engage and Explore

- In a discussion, ask students what they already know about light and about sources of light. To guide the discussion, use questions such as: What happens when the lights are turned on in a dark room? How are we able to see objects? Can we see without light? What happens when light hits an object? What is our main source of light? (sun) Record observations and ideas and questions that are generated on chart paper and post for reference during the unit on light. (S.IP.03.12, S.IA.03.12)
- The guiding question for this activity is: How does light travel? Use flashlights and approximately six - 3x5 index cards with holes per group of students. (Punch holes in the same spot through five of the cards. Students use the sixth card as a target and try to line up the cards so that

the light hits the target.) Students discover that the cards need to be lined up in a straight line in order for the light to pass through the holes and hit the target. Students conclude that light does not bend. Light travels in straight lines. Continue to record observation, ideas and questions generated during the activity. Record on chart paper for future reference. (P.EN.03.21, S.IP.03.11, S.IP.03.12)

- Distribute a mirror to each student. Students observe themselves in the mirror. Instruct students to move the mirror to the side until they see the person behind them. Ask: Can the person behind you see your face? Can you see your own face? Students manipulate the mirror and make observations. Record observations on a chart entitled: "Properties of Light." (P.EN.03.21, S.IP.03.11)
- Teacher preparation: Cut a narrow slit (just a few millimeters wide) in the center along one edge of a 3 x 5 index card (note: black cardstock works better). Tape the card over the front of a flashlight so that the open end of the slit just meets the edge of the flashlight. Turn on the flashlight and set it on a sheet of white paper on a flat surface. Adjust the flashlight so there is a narrow beam of light along the length of the paper. Place a mirror without a frame upright at the end of the paper propped up by a book. Lay the flashlight on a table at one end of the white paper.
- Students shine the light through the slit along the white paper onto the mirror. They should see both the incoming and the reflected beam on the paper. Have students make observations about the light as they see it go to the mirror and away from the mirror. What types of things did they notice? Encourage students to manipulate the flashlight and the mirror.
- Trace the incoming and reflected beams of light on the paper. Although students of this age won't be able to measure angles and get an accurate drawing of the path of the light being reflected by the mirror, they should see that it forms angles or triangles that look the same going from the flashlight to the mirror and away from the mirror. Add to the chart entitled "Properties of Light" that light can be reflected. (P.EN.03.21, S.IP.03.11)

Explain and Define

- Students discuss and share their ideas of how light travels in straight lines and what happens when it hits a surface like a mirror. The idea that it travels in straight lines should start to become apparent. Add to the chart entitled "Properties of Light" that light travels in straight lines. (P.EN.03.21)
- Student observations of the light activities are recorded in a lab book or science journal. (S.IP.03.11, S.IP.03.12)
- Explain and create definitions for: reflection, source, and path of light.
 Give descriptive examples of each of the terms using written words, diagrams and pictures. Record definition examples in student journals. (P.EN.03.21)
- As students move through the unit, add the terms: refraction, transparent, translucent, and opaque to student journals. (P.EN.03.21)

Elaborate and Apply

- Explore the question, How does light behave when it interacts with different objects? Design an investigation to explore how light interacts with various surfaces. Provide groups of students with flashlights, mirrors, aluminum foil, glass or clear plastic, waxed paper, etc. As students explore the materials with their flashlight, they create a chart to record their findings. Through class discussion, students develop an understanding of transparent, translucent and opaque objects and whether or not they create shadows. Add to the "Properties of Light" chart that light can be absorbed or reflected. (S.IP.03.11, S.IP.03.16)
- Cut out a variety of shapes from opaque material or use a variety of opaque objects. Students use the shapes to block light and form shadows. They explore shadows by manipulating the objects on a piece of white paper, using different sources of light. Trace the shadow on the paper and record observations. Predict the shape of a shadow given a source of light and an object. (P.EN.03.21, S.IP.03.11, S.IP.03.12, S.IP.03.13, S.IP.03.14, S.IP.03.16, S.IA.03.12, S.IA.03.13, S.RS.03.11, S.RS.03.14, S.RS.03.15)
- Place a pencil in a cup of water or through a zip type bag full of water and observe what happens to the appearance of the pencil. Use a tank of water and have students view objects in the water from all angles including from under the surface looking up. In collaborative groups, students discuss their observations. As questions arise in their discussions, students research the answers. Students create a graphic organizer or model to demonstrate the path of light as it enters water. Note: Third grade students do not need to understand that the speed of light varies as it travels through different media. Third grade students simply make observations. (P.EN.03.22, S.IP.03.11)
- Introduce the question; Is light a form of energy? With the assistance of the teacher, students use thermometers in dark colored materials and white/light colored materials placed under a lamp or sunlight. Students record observations on charts. The activity is repeated two more times for accurate results. In collaborative groups, students share their ideas about the differences in the temperatures recorded. They communicate their findings. Using the evidence gathered during the activity, they conclude that light is a form of energy because the light energy is transformed to heat energy. There is a change in temperature. (P.PM.03.51, S.IP.03.14, S.IP.03.15, S.IP.03.16, S.IA.03.11, S.RS.03.14)
- Ask: Do we need light to see? How do you know? Students record their ideas in student journals. If appropriate, take students into a room that can be darkened completely. Turn off the lights. Discuss what they can see. Is the room completely dark? In a darkened room with a mirror (a bathroom is perfect), students look at their eyes in the mirror with the flashlight on, then off, then on. They discuss their observations. Students answer the question, How does light get into our eyes? Using the concepts presented in earlier activities, discuss that light travels in

- straight lines. Share ideas that when light hits an object it is reflected and enters our eyes. (P.PM.03.52, S.IP.03.11, S.IP.03.12)
- Students design a simple investigation based on a question generated from the "Properties of Light" chart, i.e. can light be reflected more than one time? They use appropriate tools of observation and construct simple charts and graphs from data and observations. Students summarize information and communicate findings. (P.EN.03.21, P.EN.03.22, S.IP.03.13, S.IP.03.14, S.IP.03.16, S.IA.03.11, S.IA.03.12, S.IA.03.13)

Evaluate Student Understanding

Formative Assessment Examples

- Monitor discussions on light for student understanding. (P.EN.03.11, P.EN.03.21, P.EN.03.22, P.PM.03.51, P.PM.03.52)
- Check student lab books or science journals for understanding. Do students make predictions based previous experiences? Are students demonstrating increased application of previous observations to new experiences? Are students making connections? (P.EN.03.11, P.EN.03.21, P.EN.03.22, P.PM.03.51, P.PM.03.52)

Summative Assessment Examples

- Students design a simple investigation to explore the properties of light (light travels in straight lines, light is reflected). (P.EN.03.21, P.EN.03.22)
- Predict and draw the shape of a shadow based on the object and the source of light. (P.EN.03.21)
- Draw a picture of a pencil half in and half out of water. (P.EN.03.22)

Enrichment

Make sundials on the playground.

• Check shadows at various times of the day, outline in chalk, and compare.

Investigate natural and man-made sources of light.

• Extend the refraction of light activity by introducing various clear liquids such as oil, vinegar, clear soda.

 Research the structure and function of the eye. Conduct an eye dissection (preserved or web-based).

Use a prism to refract visible light. Make rainbows.

· Make a periscope.

Make a kaleidoscope.

- Student science journals, written explanations of investigations, letters to "absent" students explaining the activities of the day all are good ways to integrate writing into this unit.
- Pod cast sessions about light and explain in cooperative groups the ideas associated with this unit.

Intervention

- Investigate light bulbs to explore the concept that light is a form of energy.
- Conduct a scavenger hunt for light sources around the school. Classify as natural or man-made light.

Create shadow plays with students.

- Using a jar or tank of water, place various objects in, half in, and out of the water. Draw observations. Share ideas at home.
- Using water, a clear cup and a brightly colored sticker, place the sticker on the table. Place the empty cup on the sticker. View the sticker from a 45-degree angle. Slowly pour water into the cup. Record or discuss observations. What does the sticker look like when viewed from the side of the cup? The top of the cup? Explain the differences. Put their thumb in the cup of water. Discuss observations.
- Using thermometers, explore different areas of the playground on a sunny day. Take temperatures in the shade, the sun, under objects. Discuss results.
- Create a word wall with illustrations to assist students with vocabulary.

Read texts to reinforce concepts.

 Illustrate important concepts for clarification and evidence of understanding.

Examples, Observations, and Phenomena (Real World Context)

Light is all around in many different forms. We use a variety of natural and man-made light sources everyday. Different kinds of lighting such as fluorescent bulbs, mercury-vapor lighting in parking lots, and the multiple uses of laser light are more energy efficient. The sun is the major light source for life on Earth. Scientists have developed technology to capture the light from the sun to be used for solar energy that generates electricity for heating, cooling and lighting. Light energy can also be stored through technology for future use.

Photography and the use of cameras show how light and the human eye behave. Light is necessary for sight. Light strikes an object and is reflected for the eye to perceive the image. Scientists and inventors use the properties of light to make televisions, computer screens, lasers, and many other tools and devices that are used in homes, hospitals, industry, and agriculture. Lewis Howard Latimer and Thomas Edison were pioneers in understanding and applying the properties of light to make useful contributions to society.

Literacy Integration

Reading

R.CM.03.01 connect personal knowledge, experiences, and understanding of the world to themes and perspectives in text through oral and written responses.

R.CM.03.02 retell in sequence the story elements of a grade level narrative text and major idea(s) and relevant details of grade level informational text.

Examples of trade books available for learning about light are:

Day Light, Night Light, Let's Read and Find Out Series 2, by Branley and Schett, 1998
Bear Shadow, by Asch, 1985
Hatchet by Gary Paulsen, 1987

Use the chapter in Hatchet, where Brian tries to spear fish. He finally
figures out that he has to aim differently because of the refraction of the
water. Set up a tank and place a weighted plastic frog or fish in the
water. Give the opportunity to try spear fishing and make observations of
the location of the fish as observed through the water.

Writing

W.GN.03.03 write an informational piece including a report that demonstrates the understanding of central ideas and supporting details using an effective organizational pattern (i.e. compare/contrast, cause/effect, problems/solutions) with a title, heading, subheading, and a table of contents.

W.GN.03.04 use the writing process to produce and present a research project; initiate research questions from content area text from a teacher-selected topic; and use a variety of resources to gather and organize information.

Speaking

S.DS.03.04 plan and deliver presentations using an effective informational organizational pattern (e.g. descriptive, problem/solution, cause/effect) supportive facts and details, reflecting a variety of resources, and vary the pace for effect.

Instructional Framework

Instructional Example- Sound Energy

Energy

Sound: P.EN.03.31, P.EN.03.32

Objectives

Demonstrate that vibrating objects produce sound energy.

• Distinguish fast and slow vibrations as pitch.

• Explain that pitch and volume are two characteristics of sound.

- Observe that a change in the way an object vibrates affects the pitch and volume of the sound produced.
- Demonstrate that changing the length, tension, or thickness of a string affects the frequency of the vibrations and, therefore, the pitch of the sound produced.

Engage and Explore

- Go outside and have students make observations using their sense of hearing. Have students make a list of all the sounds they hear and then classify the sounds as natural or man-made (manufactured). (P.EN.03.31, S.IP.03.11)
- Ask students to describe their ideas of how sounds are made. (P.EN.03.32)
- Hold a plastic ruler on a table so that half of the ruler hangs out over the edge of the table. Pluck the free end of the ruler lightly and again with more force. The ruler vibrates producing a sound. Students record and discuss observations of the difference in sounds. Move the ruler to a different length, either longer or shorter, and repeat using the same force when plucking. Students make observations and discuss the difference in the sounds. How did the length of the ruler affect the sound? Record observations and create a class chart for questions and ideas about sound. (P.EN.03.31, P.EN.03.32, S.IP.03.11, S.IP.03.12, S.IP.03.13, S.IP.03.16, S.IA.03.11, S.IA.03.12, S.IA.03.13, S.RS.03.11, S.RS.03.14, S.RS.03.15)
- Provide a variety of toys that produce sound such as whirling tubes, clackers, buzzers, etc. Students explore the "Sound Museum" and make observations. Identify how the sounds are produced. (P.EN.03.31, P.EN.03.32, S.IP.03.11, S.IP.03.12, S.IP.03.13, S.IP.03.16, S.IA.03.11, S.IA.03.12, S.IA.03.13, S.RS.03.11, S.RS.03.14, S.RS.03.15)

Explain and Define

Have students choose one of the toys or an instrument and explain how it produces sound. (P.EN.03.31, P.EN.03.32)

Create operational definitions for the words sound, vibration, and pitch.

(P.EN.03.31, P.EN.03.32)

 Draw a diagram of a high-pitched sound wave and a low-pitched sound wave. Have students make connections between the diagrams and the sounds from different instruments. (P.EN.03.31 and P.EN.03.32)

Elaborate and Evaluate

- Students make own instruments with rubber bands, string, boxes, straws, etc. Students record and share what they observe about the various "instruments" they made. (P.EN.03.31, P.EN.03.32, S.RS.03.11)
- Create drums using different sized containers and materials for the drumhead. Explore tightening and loosening the drumheads. Students record and share what they observe. (P.EN.03.31, P.EN.03.32, S.IP.03.11, S.IP.03.12, S.IA.03.12, S.RS.03.11, S.RS.03.14)

 Create straw whistles of different lengths. Students record the highs and lows of the pitch and compare it with the length of the column of air/straw. (P.EN.03.31, P.EN.03.32, S.IP.03.11, S.RS.03.11)

• Borrow stringed instruments from the music teacher. Students explore the effects of changing the length of strings while plucking. (P.EN.03.31, P.EN.03.32, S.IP.03.11, S.RS.03.11)

Evaluating Student Understanding

Formative Assessment Examples

• Use student investigations and science journals to assess ability to describe sound and sound as energy. (P.EN.03.31, P.EN.03.32)

• Observe students during investigations on sound. Ask questions to probe student understanding while observing cooperative groups. (P.EN.03.31, P.EN.03.32)

 Use student investigations to assess their ability to ask questions based on observations. (P.EN.03.31, P.EN.03.32)

Summative Assessment Examples

- Students create a simple and fair investigation from one of the above activities. Check lab books for accuracy and understanding. (P.EN.03.31, P.EN.03.32)
- Create a concept map that shows the concepts of sound. (P.EN.03.31, P.EN.03.32)

Enrichment

- Choose questions for further investigation and research on sound.
- Challenge students to create a band from a variety of homemade instruments. A good example of how everyday things can be used for composition is the group, STOMP. Video performances of this group can be used to show their interesting way of using sound for performance. Students should be able to show how the objects they chose vibrate and create sound.
- Use a tuning fork and hold it on the surface of a pan of water.
- Fill glasses of the same size with different amounts of water and replicate the musical scale.
- Make plastic cups with plastic wrap rubber banded to the opening. Place salt, sugar, or sand on the drumhead. Place it near the speaker of a stereo. Watch the grains jump to the sound waves.
- · Read texts about sound.
- Explore ways to amplify sound.
- Music and fractions are a natural tie-in. Students can explore quarter, half, and whole notes.
- Any performance of bands, orchestras, choirs, or using student made instruments in a composition.
- Create a "Sound Museum."
- Invite an audiologist to bring his/her equipment to share with the class.

Intervention

- Create a skit or game to demonstrate that vibrating objects cause sounds.
- Enlist the music teacher to reinforce concepts of pitch and vibration.
- Repeat experiences with stringed instruments and drums.

Examples, Observation, and Phenomena (Real World Context)

The properties of sound are experienced in everyday activities. Students hear natural and manufactured sounds through play, school, conversations, sports, and recreation. Natural sounds are sounds in nature and help scientists and naturalists identify species of animals. Animals also identify one another through different sounds they make. People and other animals communicate using sounds. Sounds are used as warning signals in nature and society. The use of alarms and sirens are life saving sounds.

Musicians use the properties of sound to create pieces of music that range from rock and roll to jazz and classical symphonies. The vibrations of different instruments are blended to create the desired notes and chords.

People that lose their sense of hearing rely on hearing aids to pick-up or sense the vibrations of sound to help them distinguish different sounds and words. Contributions of scientists such as Thomas Edison, Alexander Graham Bell, Guglielmo Marconi, and Ernest Chladni have used the properties of sound to design different tools and devices that aid in communication and hearing.

Literacy Integration

Reading

R.CM.03.01 connect personal knowledge, experiences, and understanding of the world to themes and perspectives in text through oral and written responses.

R.CM.03.02 retell in sequence the story elements of a grade level narrative text and major idea(s) and relevant details of grade-level informational text.

Examples of trade books available for learning about sound:

- Sounds All Around Let's Read and Find Out Series 1 by Pfeffer and Keller, 1998
- Making Musical Things, by Ann Wiseman and Ann Wiseman, 1979
- Ty's One-man Band, by Mildred Walter and Margot Tomes, 1980
- Rubber-Band Banjos and a Java Jive Bass by Alex Sabbeth, 1997
- Hear! Hear! The Science of Sound by Barbara Taylor, 1991

Writing

W.GN.03.03 write an informational piece including a report that demonstrates the understanding of central ideas and supporting details using an effective organizational pattern (i.e. compare/contrast, cause/effect, problems/solutions) with a title, heading, subheading, and a table of contents.

W.GN.03.04 use the writing process to produce and present a research project; initiate research questions from content area text from a teacher-selected topic; and use a variety of resources to gather and organize information.

Speaking

S.DS.03.04 plan and deliver presentations using an effective informational organizational pattern (e.g. descriptive, problem/solution, cause/effect) supportive facts and details, reflecting a variety of resources, and vary the pace for effect.

IX.B.1.



TO: Trustees, Board of Education

FROM: Bonnie P. Riutta, Interim Superintendent of Schools

RE: Director of Finance Position

DATE: March 18, 2009

Attached is the recommendation for the posting to hire a Director of Finance. The rationale and function of the position is described in the memorandum from Maria Bolen. The posting of this position has been discussed by the Board Human Resources and Finance Committees.

Motion Moved by: Supported by:
To approve the posting of the Director of Finance position as presented.
Voice vote: Ayes Nays



TO:

Bonnie Riutta, Interim Superintendent

FROM:

Maria Bolen, Assistant Superintendent of Finance

RE:

Director of Finance Position

DATE:

March 4, 2009

Please find attached the posting for the Director of Finance Position. The hiring of my position has minimized the need for the full replacement of the Director of Accounting position. Now that the Assistant Superintendent's position has been filled, this staff position is still very much needed to meet the needs of the department. However, the position does not demand the same rate of pay or scope of responsibility as the former Director of Accounting position. The position will cover mid-level management functions as well as higher level accounting functions and will provide a much-needed contingency support for eliminating all overtime and substitutes within the department, which has been an issue with the BESPA union.

The former Director of Accounting was performing tasks that spanned from a clerical level to an executive administration level. There is absolutely no cross-training of the existing finance staff and, therefore, no activity contingency plan for staff absences. The Director of Finance could effectively provide coverage during staff absences as well as enhance the efficiency of each of the finance staff by providing close counseling and support for on-the-job efficiencies. By making this position a higher function position, the department is posturing to evolve in the event that the operations responsibilities need to be absorbed by the Finance Department.

Brighton Area Schools Job Posting

Position: Director of Finance

Reports to: Assistant Superintendent of Finance

Job Goal: To provide the district with proper accountability of its financial resources.

Qualifications:

1. Bachelors Degree - Major: Accounting

- 2. Knowledge of accounting and budget principles, fund accounting, computer applications and computerized accounting systems and principles of management and supervision
- 3. Experience in various accounting positions including general ledger, accounts payable, accounts receivable, payroll and benefits
- 4. Public school accounting experience preferred

Responsibilities:

- 1. Provide direct supervision of personnel assigned to accounts payable, benefits, payroll and other business office functions
- 2. Responsible for reporting to the taxing units, Livingston Educational Service Agency and the State of Michigan
- 3. Work directly with federal program directors and supervisors to maintain proper federal guidelines
- 4. Maintain the financial records of the district in compliance with Bulletin 1022
- 5. Review all bank reconciliations for timely preparation and accuracy
- 6. Work directly with the school district auditors
- 7. Monitor the purchasing card system and other online bill payments
- 8. Prepare monthly financial statements
- 9. Maintain the electronic purchase order system
- 10. Train building level staff on accounting software capabilities
- 11. Oversee purchasing function within the district
- 12. Review employee reimbursements
- 13. Perform any other duties as assigned by the Assistant Superintendent for Finance

Evaluation:

Performance will be evaluated on an annual basis by the Assistant Superintendent of Finance

Annual Salary: \$63,358 - \$67,888

Deadline: Friday, March 20, 2009

IX.D.1.



TO:

Trustees, Board of Education

FROM:

Bonnie Riutta, Interim Superintendent of Schools

RE:

High School Research Team Report, Special Education

DATE:

March 18, 2009

A committee of teachers, administrators and support staff was formed at the beginning of this school year to research best practice for the delivery of special education services. Marci Moloney, Director of Special Education, received a grant to support the work of this committee. After many months of research and discussion, they have prepared a recommendation for the 2009/2010 school year. The committee will present their findings and plan to the Board on March 23, 2009.

The Vision:

To Prepare ALL Students for Success in General Education and on the MME

BHS Special Education Program Delivery Model

What a great opportunity to affect positive change!

Committee Members

- ▶ BHS Special Education Teachers: Jennifer Bouhana and Randy Brady
- ▶ BHS General Education Teachers: Joan Ancona, Corinne Funke, Joe Pawloski, and Ginny Weingate
- ▶ Counselor: Jennifer Sprys-Tellner
- Middle School Special Education Teachers:
- Karen Krug, SMS and Melissa Scherdt, MMS
- ▶ BHS and LESA Administrators: Pat Meyer, Laura Surrey, Marci Moloney, and Lisa Santioni
- ▶ BEA: Barry Goode

Research Process

- Reviewed continuum of Special Education services
 - Reviewed data relative to student programming and progress
 - Read current research
 - Identified and prioritized points of concern
- Interviewed and visited comparable districts that made AYP with Special Education sub-group
 - Created multi-year plan for implementation

Our current delivery model

MME and AYP data shows our current model does not meet student needs.

We currently offer:

- Basic Categorical Blocks
 (Emotionally Impaired, Mild and Severe Cognitively Impaired)
- ❖ Special Education Department Classes
- Team Taught Classes those Co-taught by both Special Education and General Education Teachers

The Big Picture begins with:

- CreatingResource Support Classes
- CreatingTC Content Classes

(Teacher Consultant)

- Provides direct special education support by a student's own case coordinator grouped by grade level scheduled into the student's day
- Clearly defined structure and curriculum focusing on organizational skills, study and test taking strategies, basic remediation in reading, writing and math
- Supports student success in general education and proficiency on the MME
- Not designed as a study hall or homework time

Resource Support Classes

- Offered in core academic areas, such as English, Math, Science, and Social Studies offered on a drop-in basis as needed
- General Education classes will be heterogeneous allowing for appropriate modeling and rigor
- Provides support to a greater number of students/staff efficiency
- Special Education Teacher who is experienced and/or highly qualified in the specific content

TC Content Classes

Other Big Picture Features

- Culture Change:
 - All students are "Our Students"
- Ongoing training and support for both Special General Education classes Education and General **Fducation teachers**
- Case Coordinator assignments will be initiated in the Spring
- Clearly defined and administratively supported procedures, parameters and expectations for all teachers
 - will support all students in meeting MMC requirements
- Evaluate and Restructure Para-pro assignments for efficiency

Integrated Basic Content Classes

- *Reduce the number of students in basic programs by creation of specific guidelines for student placement
- ❖Basic teachers will function as a cohesive team
- ❖Goals are to prepare students to be proficient on the MME and to transition students to General Education courses and/or post secondary training
- ❖May include students earning a Certificate of Completion/Transition rather than a diploma

Sample 9th Grade Schedules

RESOURCE SUPPORT

INTEGRATED BASIC

Biology

US History

English 9

Algebra Readiness II

Resource Support Class

Phys Ed/Elective

Basic Science

Basic Social Studies

Basic English

Basic Math/Pre-Algebra

Skills in Communication

Phys Ed/Elective

Year One Changes:

- Incoming Freshmen will be assigned to a specific case coordinator
- TC Content Classes will provide support and act as a replacement for teams in Biology, Math, English 9, US History, and Chem/Physics Essentials
- Students requiring intense support will access basic content classes

- 9th grade Special Education students will be placed in General Education courses utilizing Resource Support Class as needed instead of tutorial
- Tutorials will be available for 10-12 graders meeting specific criteria
- Evaluate and address the needs of the Special Education Program providing training and support

- ·Incoming 9th graders will be assigned a specific case coordinator, 10th graders "roll up"
- •TC Content Classes will continue to provide support and act as a replacement for teams in World History and American Lit
- All Special Education students will be placed in General Education courses utilizing Resource Support Class as needed
- •Evaluate and address the needs of the Special Education Program providing training and support

Year Thiree

- Incoming 9th graders will be assigned a specific case coordinator, 10th and 11th graders "roll up"
- ·TC Content Classes will provide support and replace all other teamed classes including Brit Lit and Civics/Economics
- Special Education students will continue being placed in General Education courses utilizing Resource Support Class as needed
- Evaluate and address the needs of the Special Education Program providing training and support

NEXT STEPS

•Create Drafts of the following:

Structure and Curriculum of Integrated Basic and Resource Support Classes

Structure and Procedures for TC Content Classes

- •Examine and restructure Para-pro support
- •Investigation of general education classes reinforced with more support
- •Consideration of accelerating implementation of Special Education delivery model

IX.D.2.



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Trustees, Board of Education

FROM:

Bonnie P. Riutta, Interim Superintendent of Schools

RE:

Resolution to Dissolve Renaissance Alternative School

DATE:

March 18, 2009

As you know the Superintendents of Livingston County have met and discussed the participation of the county schools in the Renaissance Alternative School program. After much discussion, it was determined that this program would be dissolved and that the students would return to their resident districts.

We are confident that through the services of our Adult and Alternative Education programs, Brighton students will be well served. Anne Hubscher and Anne Rennie have made contact with our students to plan for their enrollment in the Brighton Schools.

Attached is the Resolution to terminate the joint agreement.

Motion Moved by: Supported by:
To adopt the Resolution to dissolve Renaissance Alternative School as presented.
Voice vote: Ayes Nays

ADDENDUM TO AGREEMENT FOR COOPERATIVE PROGRAM FOR ALTERNATIVE EDUCATION IN LIVINGSTON COUNTY – RENAISSANCE ALTERNATIVE SCHOOL

This Addendum to Agreement for Cooperative Program for Alternative Education in Livingston County - Renaissance Alternative School (the "Addendum") is entered into this _____ day of _____, 2009, by and among the undersigned parties. With their respective signatures, the parties to this Addendum voluntarily bind themselves to the covenants contained herein, and the mutual consideration that establishes the basis for the Agreement for Cooperative Program for Alternative Education in Livingston County - Renaissance Alternative School (the "Original Agreement") is hereby acknowledged and incorporated into this Addendum.

WITNESSETH:

WHEREAS, the parties to this Addendum entered into the Original Agreement in 2006 to provide for the establishment and operation of the Renaissance Alternative School; and

WHEREAS, subsequently, in 2007, the parties entered into an Agreement to Extend Existing Agreement from July 1, 2007 through June 30, 2010 for Cooperative Program for Alternative Education in Livingston County - Renaissance Alternative School (the "Extension Agreement"); and

WHEREAS, the parties now desire to enter into this Addendum to modify the terms of the Original Agreement and the Extension Agreement to provide for the winding up of the alternative middle school program and alternative high school program (the "Program") operated pursuant to the Original Agreement and the Extension Agreement, as well as the termination of the Original Agreement and Extension Agreement, and to provide for additional issues related thereto; and

WHEREAS, except as otherwise provided herein, capitalized terms found in this Addendum shall have the meaning attributed to them in the Original Agreement and/or the Extension Agreement, unless the context clearly dictates otherwise. Further, except as modified or amended by this Addendum, the remaining terms and conditions of the Original Agreement and the Extension Agreement shall remain in full force and effect.

NOW, THEREFORE, the parties agree as follows:

1. Section II.B. ("General Expiration") of the Original Agreement is modified as follows:

This Agreement shall expire and terminate on June 30, 2009 (the "Termination Date"). As of the Termination Date, each Participant shall assume and maintain responsibility for supporting the educational needs of the respective pupils enrolled

in the Program, and LESA shall have no further responsibility for those pupils, except as otherwise provided herein.

- 2. Section II.C. ("Extension") of the Original Agreement is deleted.
- 3. The second paragraph of the Extension Agreement is modified as follows:

This document extends the current agreement from July 1, 2007 through June 30, 2009, the Termination Date.

- 4. The third paragraph of the Extension Agreement is hereby deleted.
- 5. Section IV.D. ("Program Facilities") of the Original Agreement is modified as follows:

LESA shall provide physical facilities (the "Program Facilities") it determines appropriate for the Program, and shall provide all utility and custodial services. Legal title and ownership of the Program Facilities shall be and remain with LESA.

- 6. Section IV.E. ("Disposal of Program Facilities") of the Original Agreement is deleted.
- 7. Section IV.G. ("Records") of the Original Agreement is hereby modified as follows:

LESA is responsible for maintaining records of pupil attendance, grades, progress, achievement and behavior as may be required by law and applicable policies (the "Student Records"). Consistent with applicable law, each Participant shall have complete access to all Student Records maintained by LESA for the pupils of that respective Participant. LESA shall provide Participants data necessary for compilation of state and federal reports, including special population data, as Participants may need. LESA shall promptly forward all Student Records to the applicable respective Participant following the termination of this Agreement, and by no means later than July 31, 2009.

8. The last paragraph of Subsection 4 of Section VI.C. ("Program Charge") of the Original Agreement is modified as follows:

The Program Charges shall be billed to each Participant by LESA on a quarterly basis and shall be paid to LESA by the respective Participants within 30 calendar days of the billing date. Each Participating District shall pay its outstanding Program Charges, including those charges invoiced by LESA to

the Participating Districts on or before July 31, 2009, but no later than August 31, 2009. The obligation of each Participating District to pay its outstanding Program Charges shall survive the termination of this Agreement.

9. Section X.C. ("Winding Up") of the Original Agreement is modified as follows:

Upon the expiration and termination of this Agreement and the Program, LESA shall proceed to wind up the affairs of the Program. LESA shall be solely responsible for all costs and expenses related to the winding up of the Program. The Participants shall have no financial responsibility for the costs and expenses related to the winding up of the Program. LESA shall have and retain title to all Program equipment, supplies and deferred revenue as of June 30, 2009, the Termination Date, and the Participants shall have no right or claim to the foregoing.

10. Section XI.I. ("Workforce Improvement Act") is added to the Original Agreement as follows:

Notwithstanding the termination of this Agreement on the Termination Date, LESA agrees to continue through August 31, 2009 the operation of the Workforce Improvement Act grant awarded by the Livingston County Michigan Works!.

IN WITNESS WHEREOF, the parties hereto have executed this <u>Addendum to Agreement</u> for Cooperative Program for Alternative Education in Livingston County - Renaissance Alternative <u>School</u> on the day and year stated below.

On Behalf of BRIGHTON AREA SCHOOLS

Dated:	, 2009	By:	
		Name:	
		Title:	

On Behalf of FOWLERVILLE COMMUNITY SCHOOLS

Dated:	, 2009	By: Name: Title:
		On Behalf of HOWELL PUBLIC SCHOOLS
Dated:	, 2009	By: Name: Title:
		On Behalf of PINCKNEY COMMUNITY SCHOOLS
Dated:	, 2009	By:
		On Behalf of LIVINGSTON EDUCATIONAL SERVICE AGENCY
Dated:	, 2009	By: Name:

IX.D.4.



TO:

Trustees, Board of Education

FROM:

Bonnie P. Riutta, Interim Superintendent of Schools

RE:

Resolution, LESA Consortium for Copier Equipment

DATE:

March 18, 2009

The Resolution to authorize the district's participation in the LESA consortium for the purchase of copy equipment is presented for your consideration. Participation in this consortium will provide more favorable rates for the county school districts.

It is recommended that the resolution be approved as presented.

Motion Moved by: Supported by:
To adopt the LESA Photocopier Consortium Agreement as presented.
Voice vote: Ayes Nays

LIVINGSTON EDUCATIONAL SERVICE AGENCY PHOTOCOPIER CONSORTIUM AGREEMENT

This Photocopier Consortium Agreement (the "Agreement" or this "Agreement") is made this _____ day of ______, 2009, by and between Livingston Educational Service Agency, a Michigan intermediate school district organized and operating under the provisions of the Revised School Code, MCLA 380.1, et seq., as amended, with offices located at 1425 West Grand River Avenue, Howell, Michigan 48843-1916 (sometimes "Livingston ESA"); Brighton Area Schools, a Michigan general powers school district organized and operating under the provisions of the Revised School Code, MCLA 380.1, et seq., as amended, with offices located at 125 South Church Street, Brighton, Michigan 48116-2403; Fowlerville Community Schools, a Michigan general powers school district organized and operating under the provisions of the Revised School Code, MCLA 380.1, et seq., as amended, with offices located at 735 North Grand Avenue, Fowlerville, Michigan 48836; Hartland Consolidated Schools, a Michigan general powers school district organized and operating under the provisions of the Revised School Code, MCLA 380.1, et seq., as amended, with offices located at 9525 Highland Road, Howell, Michigan 48843; Howell Public Schools, a Michigan general powers school district organized and operating under the provisions of the Revised School Code, MCLA 380.1, et seq., as amended, with offices located at 411 North Highlander Way, Howell, Michigan 48843; Pinckney Community Schools, a Michigan general powers school district organized and operating under the provisions of the Revised School Code, MCLA 380.1, et seq., as amended, with offices located at 2130 E. M-36, Pinckney, Michigan 48160 (individually, a "District" and collectively, the "Participants" or the "Districts") and which Participants collectively and cooperatively shall, for purposes of this Agreement, be referred to as the "Consortium".

PREMISES

WHEREAS, the Participants desire to work as a group to obtain a vendor that will provide all aspects of Photocopier Services, including without limitation, the installation maintenance and repair of photocopier machines (collectively, the "Photocopier Services").

WHEREAS, the Participants desire that Livingston ESA assist them in forming a consortium to assist in the selection of, and entering into a contract with, a vendor for Photocopier Services.

WHEREAS, Livingston ESA is willing to enter into a contract with a vendor for Photocopier Services and permit the Participants to reimburse Livingston ESA for the specific Photocopier Services utilized by each Participant.

ARTICLE I

PHOTOCOPIER SERVICES

- 1.1 <u>Photocopier Services</u>. The purpose of this Agreement is to authorize Livingston ESA to coordinate a vendor selection process for Photocopier Services for and on behalf of each Participant and to enter into an agreement for Photocopier Services based upon the specific needs of each Participant (the "Photocopier Agreement").
- 1.2 Fiscal Agent. Livingston ESA shall serve as the fiscal agent for the Consortium and shall have the authority to enter into, for and on behalf of the Consortium and the Districts, the Photocopier Agreement. The Consortium itself has no other authority to enter into contracts, to own property, or to employ personnel. Other than the Photocopier Agreement, Livingston ESA shall have no authority to enter into any other contracts on behalf of the Consortium or any Participant.
- 1.3 <u>Installation, Maintenance and Repair, and Support</u>. Livingston ESA shall provide general assistance concerning the Photocopier Services. However, each Participant shall

coordinate with the vendor, the installation, maintenance and repair, and support of the Photocopier Services being provided to that Participant.

- 1.4 <u>Training</u>. Each Participant shall coordinate with the vendor, all on-site training. The cost of the training shall be paid by Livingston ESA pursuant to Section 3.1, below, with the cost of the training being reimbursed by the Participants pursuant to Section 3.2, below.
- 1.5 <u>Warranties</u>. Livingston ESA shall assign to each Participant, all manufacturers and vendor warranties. Each Participant shall coordinate with the vendor any warranty work or other warranty claims. The cost of the warranty work or other warranty claims shall be paid by Livingston ESA pursuant to Section 3.1, below, with the cost of the warranty work, if any, being reimbursed by the Participants pursuant to Section 3.2, below.
- 1.6 <u>Participation</u>. Each Participant shall advise Livingston ESA, in writing, on the specific Photocopier Services that it wants provided under the Photocopier Agreement. Livingston ESA shall establish the timelines for participation and the Photocopier Agreement and conform those timelines, in writing, with each Participant. Nothing contained in this Agreement will obligate a Participant to obtain Photocopier Services pursuant to the Photocopier Agreement.

ARTICLE II

TERM OF AGREEMENT

- **2.1** Term. The term of the Agreement shall be for four (4) years, commencing July 1, 2009 and terminating on June 30, 2013.
- **2.2** Renewal. This Agreement shall automatically renew after the initial four (4) year term, from year-to-year until such time as the Participants determine to dissolve the Consortium as provided in Section 2.4 of this Agreement.

- 2.3 <u>Withdrawal</u>. After the initial four (4) year term, any Participant may withdraw from the Consortium. Upon withdrawal, the Participant relinquishes any rights in the Photocopier Services and is not entitled to any reimbursement for its original or subsequent investment in the photocopying services or the Consortium.
- **2.4** <u>Dissolution.</u> Upon majority vote of the Participants, after the initial four (4) year term, the Consortium may be dissolved. Upon dissolution and after payment of all outstanding obligations, the assets of the Consortium shall be distributed as determined by a majority vote of the then Participants.

ARTICLE III

CONSORTIUM COSTS

- 3.1 Costs. Livingston ESA, in an effort to foster collaboration between and among the Participants, agrees to enter into the Photocopier Agreement for and on behalf of the Consortium. Livingston ESA shall pay, when due, all amounts owing under the Photocopier Agreement. Each Participant agrees to reimburse Livingston ESA for the Photocopier Services that have been provided to that Participant, which reimbursement is more fully described in Section 3.2, below. A Participant may, in its discretion, elect to receive invoices directly from the vendor and make payment of these invoices to the vendor. If a Participant elects to receive and pay invoices in this manner, the vendor shall provide copies of the invoices and proof of payment of these invoices to Livingston ESA upon request.
- 3.2 <u>Participants' Share of Costs</u>. Each Participant shall be responsible for the cost of the Photocopier Services that they have been provided. A Participant shall reimburse Livingston ESA within thirty (30) days from the date of receipt of an invoice for the Participant's cost of Photocopier Services.

3.3 Other Costs. The process identified in Section 3.2, above, shall not be utilized if a Participant requests from the vendor, any extra or other services that are not part of the Photocopier Agreement. The Participant shall be responsible to pay these costs directly to the vendor.

ARTICLE IV

CONSORTIUM BYLAWS

- **4.1** <u>Mutual Support</u>. Each Participant agrees to enter into this Agreement with the intent of mutual support and to preserve resources in the area of Photocopier Services.
- 4.2 <u>Annual Meetings</u>. During the term of this Agreement, the Participants agree to meet once a year in April to review and make suggested revisions, changes and/or adjustments to the Agreement. Any revision, change and/or adjustment to this Agreement shall require unanimous written consent of the Participants.
- 4.3 <u>Meetings by Participant</u>. Any Participant may call a meeting of the Consortium with thirty (30) days' written notice to all parties. Livingston ESA may act as a mediator in any disputes if agreed to in writing by the parties. If Livingston ESA is unacceptable to any party, then any dispute may, if agreed to by the parties, be submitted to the American Arbitration Association ("AAA") for hearing in accordance with the Commercial Arbitration Rules and the procedures of the AAA. All costs shall be paid by the Participants as provided by the AAA.

ARTICLE V

LIABILITY

5.1 <u>No Joint Liability</u>. The Participants, including Livingston ESA, are not jointly liable for any act, failure to act or omission committed by any one of them, including without limitation, the failure to pay. Any cause of action, in any form, brought based upon the act, failure to act or omission of any Participant may be brought only against the Participant that

failed to act or committed the omission. Each Participant is a separate legal entity with all rights provided by law and this Agreement.

5.2 <u>Participant's Failure to Reimburse</u>. If a District fails to reimburse Livingston ESA as required in Article III, above, Livingston ESA may pursue any or all legal and equitable remedies.

ARTICLE VI

AMENDMENT AND WAIVER

- 6.1 Entire Agreement. This Agreement contains all of the terms of the Agreement among the Participants with respect to the Consortium and the Photocopier Services and supersedes all prior and contemporaneous agreements and understandings, oral or written, with respect to the Consortium and the Photocopier Services.
- **6.2** <u>Amendment.</u> Any amendment of this Agreement shall be in writing and executed by all the Participants.
- 6.3 <u>Waiver</u>. Failure to enforce or insist upon compliance with any of the terms or provisions of this Agreement shall not constitute a general waiver or relinquishment of any term or provision of this Agreement.

ARTICLE VII

APPLICABLE LAW

- 7.1 <u>Meaning of Applicable Law</u>. The term "applicable law" as used in this Agreement means:
- (a) Generally, all federal, state, and municipal laws and regulations, and judicial or administrative determinations, applicable to this Agreement, the Consortium, the photocopies services, and the funding, administration, and operation thereof.

(b) In particular, but not limited to, the Revised School Code (1976 PA 451; MCLA 380.1, et seq.; MSA 15.4001, et seq.

ARTICLE VIII

MISCELLANEOUS

- 8.1 Notices. All notices, bills, or other communications required or permitted under this Agreement shall be in writing and shall be deemed to be duly given on the day of service if served personally or by confirmed facsimile or e-mail delivery upon the Participant to whom notice is given at its address as listed above, or the address subsequently provided to all other Participants, or on the day after delivery to the United States Postal Service for regular mail service, to the attention of the Participant's Superintendent of Schools.
- 8.2 <u>Non-Discrimination</u>. All Participants shall comply with all federal and Michigan laws and regulations prohibiting discrimination and, in accordance therewith, no person, on the basis of race, color, religion, national origin and ancestry, age, sex, marital status, handicap, or political affiliation or belief, shall be discriminated against, excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination in any program or activity for which it is responsible or for which it receives financial assistance from the U.S. Department of Education or Michigan Department of Education.
- 8.3 <u>Successors and Assigns</u>. The terms and conditions of this Agreement shall be binding upon the successors or assigns of any of the Participants. No Participant may assign or transfer any of its rights under this Agreement in whole or in part without prior written consent of all other Participants.
- **8.4** <u>Headings and Titles.</u> The headings and titles in this Agreement are for convenience only and shall not be considered a part of or used in the interpretation of this Agreement.

- **8.5** Severability. The unenforceability of any provision of this Agreement shall not affect the enforceability of the remaining provisions of this Agreement, and to this end, the provisions hereof are severable.
- **8.6** Governing Law. The Agreement shall be governed by and enforced in accordance with the laws of the State of Michigan.
- 8.7 <u>Counterparts</u>. This Agreement shall be executed in counterparts separately by each Participant, each of which counterparts shall be deemed an original, and all of which shall constitute one and the same instrument.
- 8.8. <u>Effectiveness</u>. This Agreement shall come into full force and effect at such time as this Agreement has been executed by all Participants, and such executed Agreement or counterparts are on file with Livingston ESA as fiscal agent of the Consortium.
- 8.9 <u>No Third Party Beneficiaries</u>. This Agreement is enforceable only by the Participants. No other person may enforce any of the terms contained in this Agreement, nor is the Agreement intended to confer third party beneficiary status on any third party.

EACH SIGNER TO THIS AGREEMENT PERSONALLY REPRESENTS AND WARRANTS THAT THIS AGREEMENT HAS BEEN APPROVED BY THE GOVERNING BODY OF THE PARTICIPANT ON WHOSE BEHALF THIS AGREEMENT IS SIGNED AND THAT HE/SHE HAS BEEN AUTHORIZED TO SIGN THIS AGREEMENT.

[Signatures following on next pages]

AUTHORIZED SIGNATURE

BRIGHTON AREA SCHOOLS, a Michigan general powers school district

Dated:	By:			
	Its:			
	Address:	125 South Church Street Brighton, Michigan 48116-2403 Attention: Superintendent		
		(810) 299-4000 (810) 299-4092		
		FOWLERVILLE COMMUNITY SCHOOLS a Michigan general powers school district		
Dated:	Ву:			
	Its:			
	Address:	735 North Grand Avenue Fowlerville, Michigan 48836 Attention: Superintendent		
		(517) 223-6055 (517) 223-6022		
		D CONSOLIDATED SCHOOLS general powers school district		
Dated:	Ву:			
	Its:			
	Address:	9525 E. Highland Road Howell, Michigan 48843 Attention: Superintendent		
	Telephone: Facsimile: Email:	(810) 626-2100 (810) 526-2101		

HOWELL PUBLIC SCHOOLS, a Michigan general powers school district

Dated:	Ву:			
	Its:			
	Address:	411 North Highlander Way Howell, Michigan 48843 Attention: Superintendent		
		(517) 548-6200 (517) 548-6229		
		PINCKNEY COMMUNITY SCHOOLS, a Michigan general powers school district		
Dated:	By:			
	Its:			
	Address:	2130 East M-36 Pinckney, Michigan 48160 Attention: Superintendent		
	Telephone: Facsimile: Email:	(810) 225-3900 (810) 225-3905		
		ON EDUCATIONAL SERVICES Michigan intermediate school		
Dated:	By:			
	Its:			
	Address:	1425 W. Grand River Avenue Howell, Michigan 48843-1916 Attention: Superintendent		
	Facsimile:	(517) 456-5550 (517) 456-7047		

IX.D.5.



TO:

Trustees, Board of Education

FROM:

Bonnie P. Riutta, Interim Superintendent of Schools

RE:

Acceptance of Donation, Furniture

DATE:

March 18, 2009

As per Policy 7230 - Gifts, Grants and Bequests, the Board of Education is required to accept donations that exceed \$1,000 in value. The Livingston Educational Service Agency donated furniture for use in the business office. In addition to the furniture, LESA employees Chuck LeFebvre and Brian Braden assembled the furniture without disruption to the normal business office work routine.

On behalf of the district, I would like to extend my appreciation to LESA for the generous donation of furniture that is being put to good use by our staff.

Motion

Moved by: Supported by:

To accept the donation of office furniture from LESA with appreciation and special thanks to LESA employees Chuck LeFebvre and Brian Braden for delivering and assembling the furniture.

Voice	vote:
	Ayes
	Nays



TO:

Mike Hubert, Assistant Superintendent of Finance

Livingston Educational Service Agency

FROM:

Bonnie Riutta, Interim Superintendent

Brighton Area Schools

RE:

Furniture Donation

DATE:

March 6, 2009

Thank you so much for the Livingston Educational Service Agency donation of furniture for the business office of Brighton Area Schools. The professional presence and appearance of the space has improved significantly because of the furniture. Your donation is greatly appreciated by all.

This memo is also to commend the Livingston Educational Employees, Chuck LeFebvre and Brian Braden on their work assembling the furniture. They were very knowledgeable about the assembly process and patient with our staff in setting the furniture up. They worked diligently with the no disruptions to our workflow.

Again, thanks for the furniture and all other assistance the Livingston Educational Service Agency has provided to Brighton Area Schools.

Brighton Area Schools Bylaws & Policies

7230 - GIFTS, GRANTS, AND BEQUESTS

The Board of Education is duly appreciative of public interest in and good will toward the schools manifested through gifts, grants, and bequests. The Board reserves the right, however, to specify the manner in which gifts are made; to define the type of gift, grant, or bequest which it considers appropriate; and to reject those which it deems inappropriate or unsuitable. If accepted, the Board will attempt to carry out the wishes of the donor.

All gifts, grants, or bequests having a value of more than \$1,000 shall be accepted by the Board. The Superintendent may accept for the Board gifts of lesser value.

Gifts, grants, and bequests shall become the property of the Board and will be subject to use by the District as determined by the policies and administrative guidelines applying to all properties, equipment, materials, and funds owned by the Board.

Any equipment purchased by a parent organization for use in the school or at a District-related event shall be submitted to the Board, prior to purchase, so it can determine if the District would incur any liability by its use.

The Board reserves the right to not accept such liability and thus deny the use of the equipment by students or District employees.

Board Curriculum Sub-Committee Tuesday, March 17, 2009; 7:15 p.m. Special Education Office, BECC

MINUTES

Call to Order

Greg Rassel called the Board Curriculum Sub-Committee Meeting to order at 7:15 p.m.

Roll Call

Members In Attendance: Jay Krause, Beth Minert, Greg Rassel and Baiba Jensen. Guests: Liz Larwa and Kris Valade

Approval of Minutes

Minutes were approved as presented.

Call to Public

Lynette Daig shared concerns about inconsistencies within departments at the high school.

New Business

- K-5 Writing Curriculum Proposal Kris Valade, the elementary literacy coach, presented to the curriculum sub-committee. Since 2005, elementary teachers have been using Lucy Calkins materials to teach Writers Workshop. A lot of training has occurred and materials were provided through our Title II grant. This year an alignment was done for the materials and teachers created writing rubrics. Elementary teachers were also surveyed about their use of the program and their results. There was an overwhelmingly positive response regarding student achievement in writing. MEAP scores also show an upward trend. Lots of teacher leadership has also been evident at recent professional development days as well. The pacing of the writing materials and the rubrics were shared at Curriculum Council and they are recommending approval of this program and delivery model. The Board sub committee members approved moving the writing curriculum forward to the full Board.
- K-5 Science Curriculum Proposal Liz Larwa, 4th grade teacher at Spencer, presented the proposed Science curriculum to the sub committee. Liz was asked to provide leadership for this initiative as she also serves on the State committee that created the new standards. She shared background about the changes in science and the new clarification document that has been written to support teachers. Also discussed was a transition plan for teaching science since a lot of content has been moved to other grade levels. Teacher representatives from each building and grade level helped align materials including use of some middle school texts. Gaps for the curriculum will be supported with trade books purchased through the Curriculum Office. The original adoption was in 2001, so many of the materials are still current. Curriculum Council approved this science proposal and the Board Curriculum sub-committee approved moving this curriculum forward.
- K-5 Social Studies Curriculum Proposal Baiba Jensen shared the new social studies alignment. Teacher representatives worked on this alignment and current materials were placed into the units. The Michigan Citizenship Curriculum,

developed in collaboration with 5 large ISD's including Oakland and Genesee counties, was used as the prototype. This curriculum is found on line and will be continually updated. Many lessons especially in the lower grades are based on trade books. The Curriculum Office is working with our media specialists to fill in gaps if a building does not have a trade book to support the units. Curriculum Council approved is proposal. The group also recommended putting a curriculum adoption line item into next year's budget to fund much needed materials for grades 3-5. Curriculum materials were last purchased in 1996 and are outdated. Middle and high school materials were purchased last year.

• Ongoing Textbook Budget Discussion - The need for an on going textbook adoption line item in the district budget was discussed. It is difficult to replace curriculum materials without a planned budget. At one time this was available to support the curriculum adoption cycle. Now that we have responded to State mandated curriculum, there is a need to restart the curriculum cycle and have funds to support those recommendations for purchase in the next year's budget. The committee was supportive of the idea and it was discussed that this be talked about in the finance committee at the end of the month as well.

Meeting was adjourned at 8:50 p.m.