

Middle Township School District  
Curriculum/Pacing Guide  
**Pre-K Science**

Content/Unit	CPI	Pacing (when & how long)	Assessment (Benchmark)
All About Me: -discovering body parts -height and weight	5.1.1-5 5.3.1 5.3.4	September (3 weeks)	Teacher Observation Classroom Discussion
Apples: -how an apple grows (different stages) -graphing -measurement -prediction -observation	5.1.1-5 5.3.1-4	September/October (1-2 weeks)	Teacher Observation Classroom Discussion Finished Product
Seasons: -signs of Autumn, Winter, Spring, Summer -observing changes of the seasons (weather and temperature) -graphing/recording weather	5.1.1-5 5.3.1-4 5.4.3	September/October Autumn (4 weeks) December/January Winter (4 weeks) March/April Spring (4 weeks) June Summer (1 week)	Teacher Observation Classroom Discussion

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<p>Animals:          -life cycles          -body parts          -habitats          (ex. squirrels, owls, spiders, bats, penguins, bears, groundhogs, insects, farm animals)</p>	<p>5.1.1-5 5.3.1-4</p>	<p>Different animals throughout the year</p>	<p>Teacher Observation Classroom Discussion</p>
<p>Pumpkins:          -how pumpkins grow          -graphing          -measurement          -observation (what does it look like)          -exploration (what's inside)</p>	<p>5.3.1-4</p>	<p>October (2 weeks)</p>	<p>Teacher Observation Classroom Discussion Finished Product</p>
<p>Five Senses:          -exploration of the five senses: taste, smell, touch, sight, and hearing</p>	<p>5.1.1-5 5.2.3 5.3.1-4</p>	<p>November (1 week) Throughout the year</p>	<p>Teacher Observation Classroom Discussion</p>

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<p>Baking:</p> <ul style="list-style-type: none"> <li>-measuring</li> <li>-changes in matter</li> <li>-pouring</li> <li>-mixing</li> </ul>	5.2.2	December (1 week) Throughout the year	Teacher Observation Classroom Discussion Finished Product
<p>Shadows:</p> <ul style="list-style-type: none"> <li>-exploring shadows</li> </ul>	5.2.3	February (1 week) Throughout the year	Teacher Observation Classroom Discussion
<p>Dental Health:</p> <ul style="list-style-type: none"> <li>-baby teeth and adult teeth</li> <li>-ways to keep your teeth healthy and strong</li> <li>-sort food as healthy or unhealthy</li> <li>-Oreo vs. apple experiment</li> <li>-egg and soda experiment</li> </ul>	5.1.1-5 5.3	February (1 or 2 weeks)	Teacher Observation Classroom Discussion Finished Product
<p>Wind/Air:</p> <ul style="list-style-type: none"> <li>-air experiments (balloons, fans, feathers, etc.)</li> <li>-weather patterns</li> <li>-temperature</li> <li>-climates</li> </ul>	5.4.4	March (1 week) Throughout the year	Teacher Observation Classroom Discussion

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<p>Caring for the Earth: -Recycling -Conservation -Earth Day</p>	<p>5.4.4</p>	<p>April (1 week) Throughout the year</p>	<p>Teacher Observation Classroom Discussion</p>
<p>Seeds: -explore seeds -plant seeds -parts of a plant -What does a plant need to grow?</p>	<p>5.1.1-5 5.4.2</p>	<p>April (2 weeks)</p>	<p>Teacher Observation Classroom Discussion Finished Product</p>
<p>Centers: -block play -dramatic play -art center -computers -sand, water, rice, light tables -manipulative play</p>	<p>5.1.1-5 5.2.1 5.2.2 5.2.4</p>	<p>Throughout the year</p>	<p>Teacher Observation Classroom Discussion Finished Product</p>

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<p>Technology:                  -classroom computer time                  -visit the computer lab                  -centers (free exploration with various materials such as:                  magnifiers, balance scales, ramps, measuring cups, color paddles,                  rulers, writing utensils, etc.)</p>	5.5.1	Throughout the year	Teacher Observation
<p>Resources: Creative Curriculum                  NJ Dept. of Ed. 2009 Preschool Teaching and                  Learning Standards</p> <p>Modification Strategies:                  Special Education- acceleration                  -review                  -graphic organizers                  -one on one instruction                  -small group instruction                  -preferential seating</p> <p>Gifted and Talented:                  -open ended questioning</p> <p>English Language Learners:                  -one on one instruction                  -in class support                  -use of pictures and real world objects                  -simplify oral directions</p>			

Course/Grade        Science/Preschool \_\_\_\_\_

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Pre-K Science

MODIFICATION STRATEGIES    PRESCHOOL - 2

SPECIAL EDUCATION  
GRAPHIC ORGANIZERS  
ONE ON ONE AND SMALL GROUP INSTRUCTION  
DIFFERENTIAL INSTRUCTION  
EXTENDED TIME  
PREFERENTIAL SEATING  
Gifted and Talented  
INDEPENDENT STUDY AND PROJECT OPPORTUNITIES

English Language Learners  
MIXED LEVEL GROUP AND PARTNERS  
PROVIDE EXTRA TIME TO COMPLETE A TASK

MATERIALS:  
HARCOURT SCIENCE GRADE 1 & 2 TEACHER GENERATED PROJECTS  
FIELD TRIPS:  
WETLAND INSTITUTE  
MUA LANDFILL & RECYLING PLANT  
CAPE MAY COUNTY ZOO AND PARK

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Grade 1 Science

4/14/11

Content/Unit	CPI	Pacing (when & how long)	Assessment (Benchmark)
PHYSICAL SCIENCE Physical properties of living and nonliving  States of Matter  Changes in Matter	5.2 A.1-A.2  B1	November	-Teacher observation -experiments -Teacher/Student question and answer -Activity Sheets
PHYSICAL SCIENCE The sun warms the land, air, and water An object can be seen when light strikes it Shadows Use of batteries	5.2 C.1-C.3  D1	End of January/ Beginning of February	-Teacher observation -experiments -Teacher/Student question and answer -Activity Sheets
PHYSICAL SCIENCE Objects move in different ways Forces	5.2 E.1-E3	January	-Teacher observation -experiments -Teacher/Student question and answer -Activity Sheets
LIFE SCIENCE Living/Non Living organisms	5.3 A.1	March	-Teacher observation -experiments -Teacher/Student question and answer -Activity Sheets

Board approval: November 17, 2011

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## Grade 1 Science

4/14/11

<p>LIFE SCIENCE Energy is needed for organisms to stay alive and grow. Plants and animals need water, food and light Animals and plants</p>	<p>5.3 B.1-B.3</p>	<p>Various times throughout the year</p>	<p>-Teacher observation -experiments -Teacher/Student question and answer -Activity Sheets - Field trips</p>
<p>LIFE SCIENCE Organize interact Provide food and shelter Habitats for plants and animals</p>	<p>5.3 C.1-C.3</p>	<p>Throughout the year</p>	<p>Teacher observation -Experiments -Teacher/ Student question and answer -Activity Sheets -Field trips</p>
<p>LIFE SCIENCE Plants and animals often resemble their parents Organisms have predictable characteristics at different stages of development</p>	<p>5.3 D.1-D2</p>	<p>September  April</p>	<p>-Teacher observation -Experiments -Teacher/ Student question and answer -Activity Sheets -Field trips</p>
<p>LIFE SCIENCE Parents/offspring traits Describe similar structures of organisms</p>	<p>5.3 E.1-E.2</p>	<p>September/October</p>	<p>Teacher observation -Experiments -Teacher/ Student question and answer -Activity Sheets -Field trips</p>



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EARTH SYSTEM SCIENCE Soils Plants	5.4 C.1, E.1	April	Teacher observation -Experiments -Teacher/ Student question and answer -Activity Sheets
EARTH SYSTEMS SCIENCE Weather Daily Weather	5.4 F.1	Various times throughout the years	Teacher observation -Experiments -Teacher/ Student question and answer -Activity Sheets
EARTH SYSTEMS SCIENCE Uses and sources of water	5.4 G.2	March	Teacher observation -Experiments -students/teachers discussion -Activity Sheets

Course/Grade \_Science\_\_ Grade 1 \_\_\_\_\_ Kristen Frank \_\_\_\_\_

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Grade 1 Science

4/14/11

MODIFICATION STRATEGIES    PRESCHOOL - 2

SPECIAL EDUCATION

GRAPHIC ORGANIZERS

ONE ON ONE AND SMALL GROUP INSTRUCTION

DIFFERENTIAL INSTRUCTION

EXTENDED TIME

PREFERENTIAL SEATING

Gifted and Talented

INDEPENDENT STUDY AND PROJECT OPPORTUNITIES

English Language Learners

MIXED LEVEL GROUP AND PARTNERS

PROVIDE EXTRA TIME TO COMPLETE A TASK

MATERIALS:

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FIELD TRIPS:

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**ELEM. #1 GRADE 2**

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PROPERTIES OF MATTER LIVING AND NON-LIVING THINGS	5.2 A-1	September 2 WEEKS	TEACHER OBS. QUESTION AND ANSWER SESSION AS A GROUP, STUDENT WORK SAMPLE, WRITING, DRAWING AND PARTICIPATING.
PROPERTIES OF MATTER OBSERVING AND MEASURING MATTER CHANGES IN MATTER	5.2 A-2 B-.1	JANUARY 3 WEEKS	TEACHER OBS. QUESTION AND ANSWERS SESSION AS A GROUP, STUDENT WORK SAMPLE, WRITING, DRAWING AND PARTICIPATING.
FORMS OF ENERGY FORCES IN MOTIONS ENERGY TRANSFER AND CONSERVATION	5.2 C.1 C,2 C.3 E.1 E.2 E.3	February 2 WEEKS	TEACHER OBS. QUESTION AND ANSWER SESSION AS A GROUP, STUDENT WORK SWAMPLE, WRITING, DRAWING AND PARTICIPATING.

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## ELEM. #1 GRADE 2

<p>LIFE SCIENCE HABITATES FOR PLANTS AND ANIMALS</p>	<p>5.3 A.1 B.1 B.2 B.3 C.1 C.3 D.1 D.2 E.1 E.2</p>	<p>September 2 WEEKS October 1 WEEK APRIL 3 WEEKS MAY 2 WEEKS</p>	<p>TEACHER OBS. QUESTION AND ANSWER SESION AS A GROUP, STUDENT WORK SAMPLE, WRITING, DRAWING AND PARTICIPATING IN ACTIVITIES.</p>
<p>EARTH SYSTEMS THE SUN AND MOON AND STARS</p>	<p>5.4 A.1</p>	<p>DECEMBER 2 WEEKS</p>	<p>TEACHER OBS. QUESTION AND ANSWER SESION AS A GROUP, STUDENT WORK SAMPLE, WRITING, DRAWING AND PARTICIPATING IN ACTIVITIES.</p>
<p>EARTH SYSTEMS PROPERTIES OF EARTH MATERIALS</p>	<p>5.4 C.1</p>	<p>MARCH 2 WEEKS</p>	<p>TEACHER OBS. QUESTION AND ANSWER SESSION AS A GROUP, STUDENT WORK SAMPLE: WRITING, DRAWING, AND PARTICIPATING IN ACTIVITIES.</p>

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## ELEM. #1 GRADE 2

<p>ENERGY IN EARTH SYSTEMS HOMES FOR LIVING THINGS Changes in Habitats Recycling, conservation, managing the Earth's resources</p>	<p>5.4 E.1 G.4</p>	<p>MAY 2 WEEKS</p>	<p>TEACHER OBS. QUESTION AND ANSWER SESSION AS A GROUP, STUDENT WORK SAMPLE: WRITING, DRAWING, AND PARTICIPATING IN ACTIVITIES.</p>
<p>CLIMATE AND WEATHER</p>	<p>5.4 F.1 G.1 G.2 G.3</p>	<p>JUNE 1 ½ WEEKS</p>	<p>TEACHER OBS. QUESTION AND ANSWER SESSION AS A GROUP, STUDENT WORK SAMPLE: WRITING, DRAWING, AND PARTICIPATING IN ACTIVITIES.</p>
<p>SCIENTIFIC PROCESS/INQUIRY</p>	<p>5.1 A -D</p>	<p>September – June  *Woven through all the contents</p>	<p>TEACHER OBS. QUESTION AND ANSWER SESSION AS A GROUP, STUDENT WORK SAMPLE: WRITING, DRAWING, AND PARTICIPATING IN ACTIVITIES.</p>

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ELEM. #1 GRADE 2

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