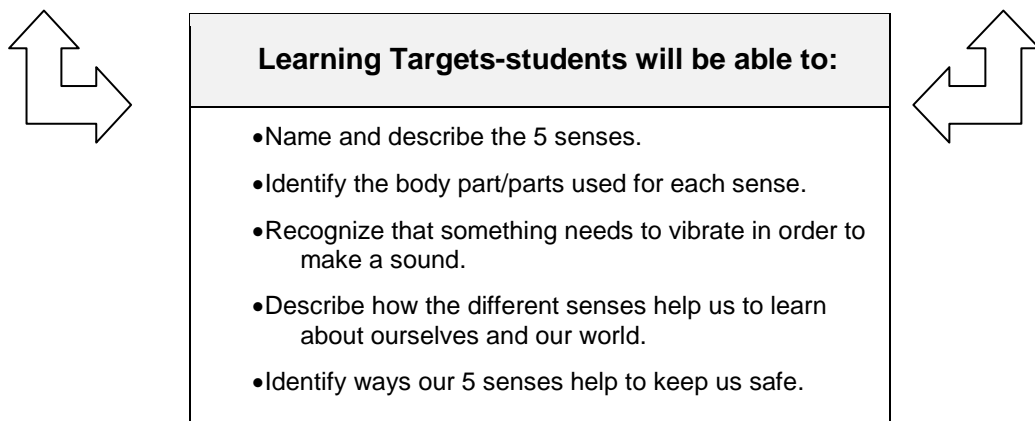
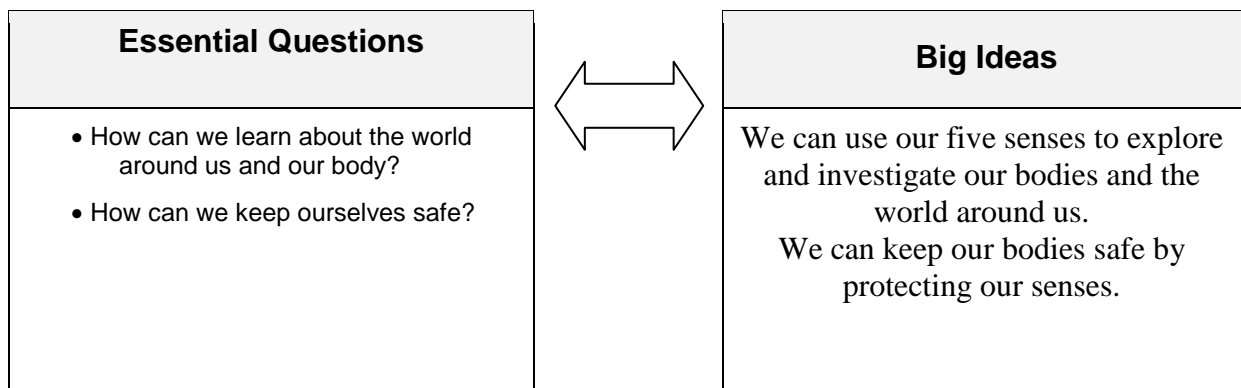


Grade 1 Science

Unit Title	1.1 Five Senses
Time frame	Marking Period
21 st Century Themes	Critical Thinking and Problem Solving Creativity and Innovation Communication and Collaboration Flexibility and Adaptability Initiative and Self-Direction Social and Cross-Cultural Skills
Interdisciplinary focus and technology integration	Technology: Internet Web Sites Language Arts Connection- Trade Books, Poems and Songs Math Connection- Count, Compare/contrast by Creating Graphs



Assessment

- Formal and Informal Teacher Observations
- Tests / Quizzes
- Diagrams and Models
- Student Homework/projects
- Classroom Experiments

Differentiation

- Hands-On Activities
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Cooperative Learning (Flexible Grouping)

Content Standards

5.1. Science Practices
5.3 Life Science

Approaches to Learning

- Observation Skills
- Inquiry Skills
- Analyzing Skills

Learning Experiences and Suggested Activities

Identify main parts of the eye and ear.
Conduct experiment to show how our pupils react to light/no light.
Conduct experiments to make sounds, view vibrations, and demonstrate effects of sound waves.
Bring in a sample/picture of favorite taste/smell
Graph, count, contrast/compare class favorite tastes and smells

Teaching Strategies

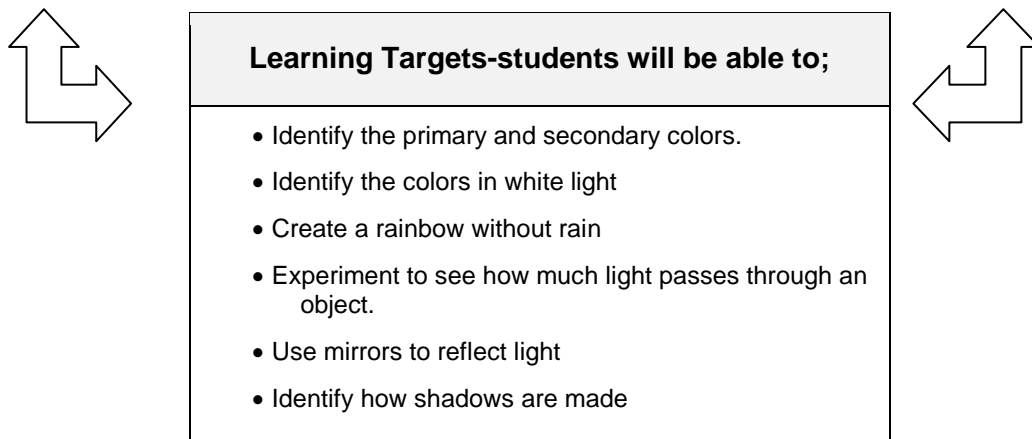
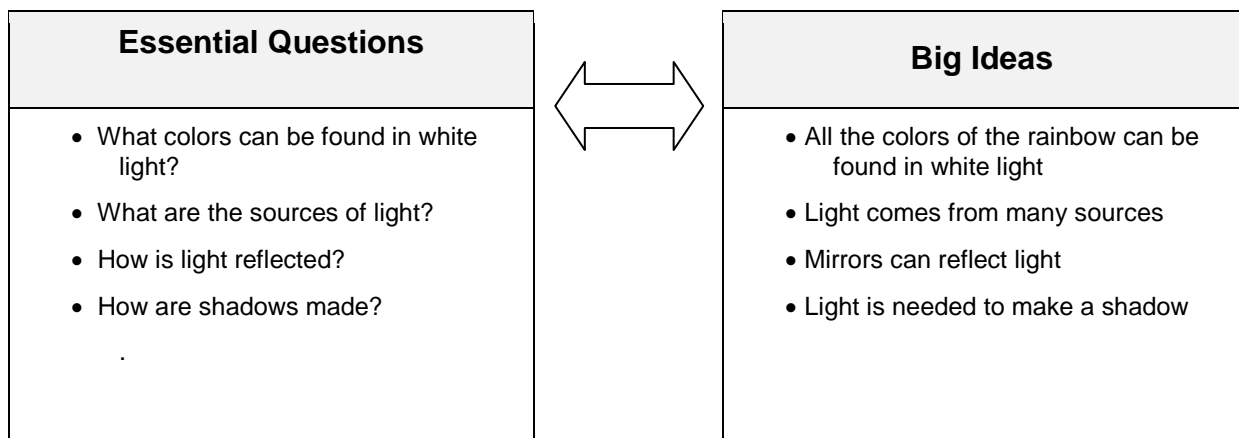
- Direct instruction- Teaching methods will include lectures, reading of trade books, internet explorations, introduction of key terms and vocabulary, viewing of videos
- Differentiated Instruction
- Interdisciplinary Activities
- Cooperative Learning Activities
- Reinforcement and Remediation

Resources

- Science Text- Harcourt Science – Physical Science Units E and F- second grade edition .
- Classroom library of non-fiction trade books
- Five Senses Manual
- Classroom ActivBoard
- United Streaming Videos
- Internet Web Sites
- Videos- Magic School Bus
- Reproducible Student Booklets
- Posters and Worksheets
- Equipment-Flashlights etc.

Grade 1 Science

Unit Title	1.2 Color, Light, and Shadow
Time frame	Marking Period
21 st Century Themes	Critical Thinking and Problem Solving Creativity and Innovation Communication and Collaboration Flexibility and Adaptability Initiative and Self-Direction Social and Cross-Cultural Skills
Interdisciplinary focus and technology integration	Technology: Internet Web Sites Art: Paint using primary colors Language Arts: Non-fiction Trade Books Math: Measurement



Assessment

- Formal and Informal Teacher Observations
- Tests / Quizzes
- Diagrams and Models
- Student Homework/projects
- Classroom Experiments

Differentiation

- Hands-On Activities
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Cooperative Learning (Flexible Grouping)

Content Standards

5.1 Life Science
5.2.C.2-3 Physical Science
5.4.4.A.1 Earth Systems Science

Approaches to Learning

- Observation Skills
- Inquiry Skills
- Analyzing Skills

Learning Experiences and Suggested Activities

- Paint using 3 primary colors to make the secondary colors
- Find the colors in white light, make a rainbow
- Identify solid objects as transparent, translucent or opaque
- Use mirrors to observe reflections
- Observe and measure the changes in a shadow throughout a day

Teaching Strategies

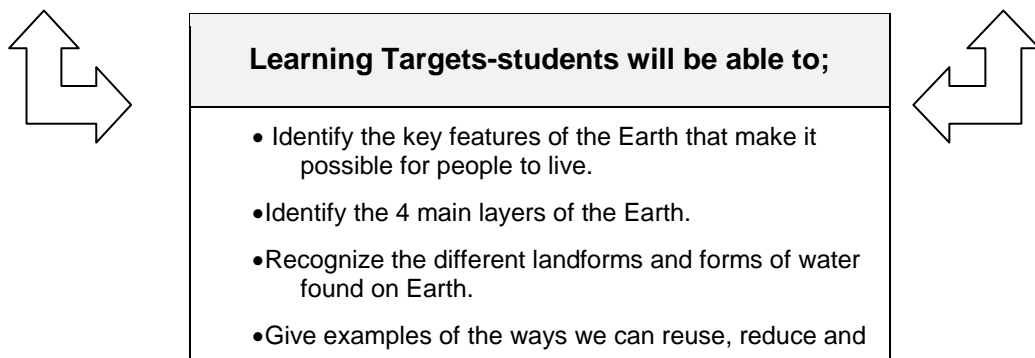
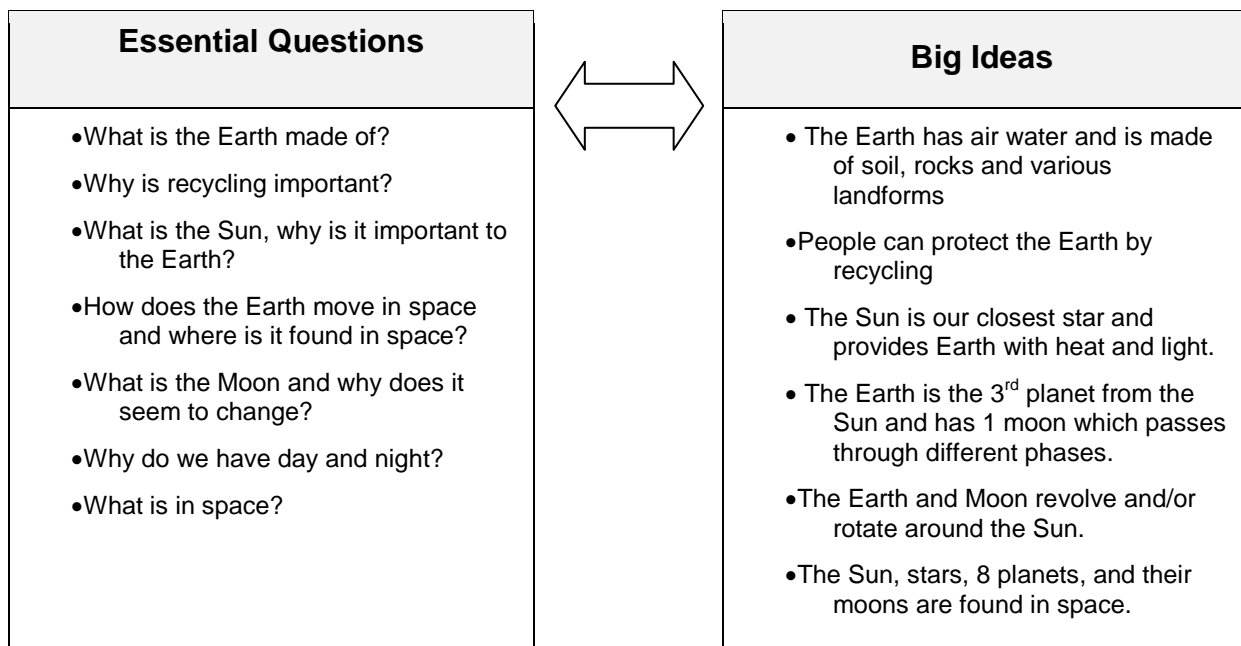
- Direct Instruction-Teaching methods will include lectures, reading of trade books, internet explorations, introduction of key terms and vocabulary
- Differentiated Instruction
- Interdisciplinary Activities
- Cooperative learning Activities
- Reinforcement and Remediation

Resources

- Videos- Magic School Bus Videos
- Classroom Library of Trade Books
- United Streaming Videos
- Classroom Activ-Board
- Windows on Beginning Science Manual
- Light & Color Step-by-Step Science Series, Carson-Dellosa Publishing Co., Inc.
- Reproducible Student Booklets
- Internet Web Sites
- Posters and Worksheets
- Equipment- mirrors, color paddles, color shakers, prisms, etc.

Grade 1 Science

Unit Title	1.3 Our Earth, Sun, and Moon
Time frame	Marking period
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration Flexibility and Adaptability Initiative and Self-Direction Social and Cross-Cultural Skills Creativity and Innovation
Interdisciplinary focus and technology integration	Technology: Art: Language Arts- trade books and songs



recycle.

- Know that the Earth is one of 8 planets and is the 3rd planet from the Sun.
- Understand that the Earth and Moon revolve and/or rotate around the Sun.
- Name the differences between the Earth and Moon.
- Recognize the different phases of the Moon.
- Recall that in space, there are the stars, planets, and moons.

Assessment

- Formal and Informal Teacher Observations
- Tests / Quizzes
- Diagrams and Models
- Homework Assignments
- Classroom Experiments

Differentiation

- Hands-On Activities
- Kinesthetic Activities
- Re-teach and Enrichment Activities
- Cooperative Learning (Flexible Grouping)

Content Standards

5.1 Life Science

5.4 Earth Systems Science

5.4.2.A.1, 5.4.P.C.1, 5.4.2.C.1, 5.4.P.F.1, 5.4.2.F.1, 5.4.P.G.1, 5.4.2.G.1, 5.4.2.G.2

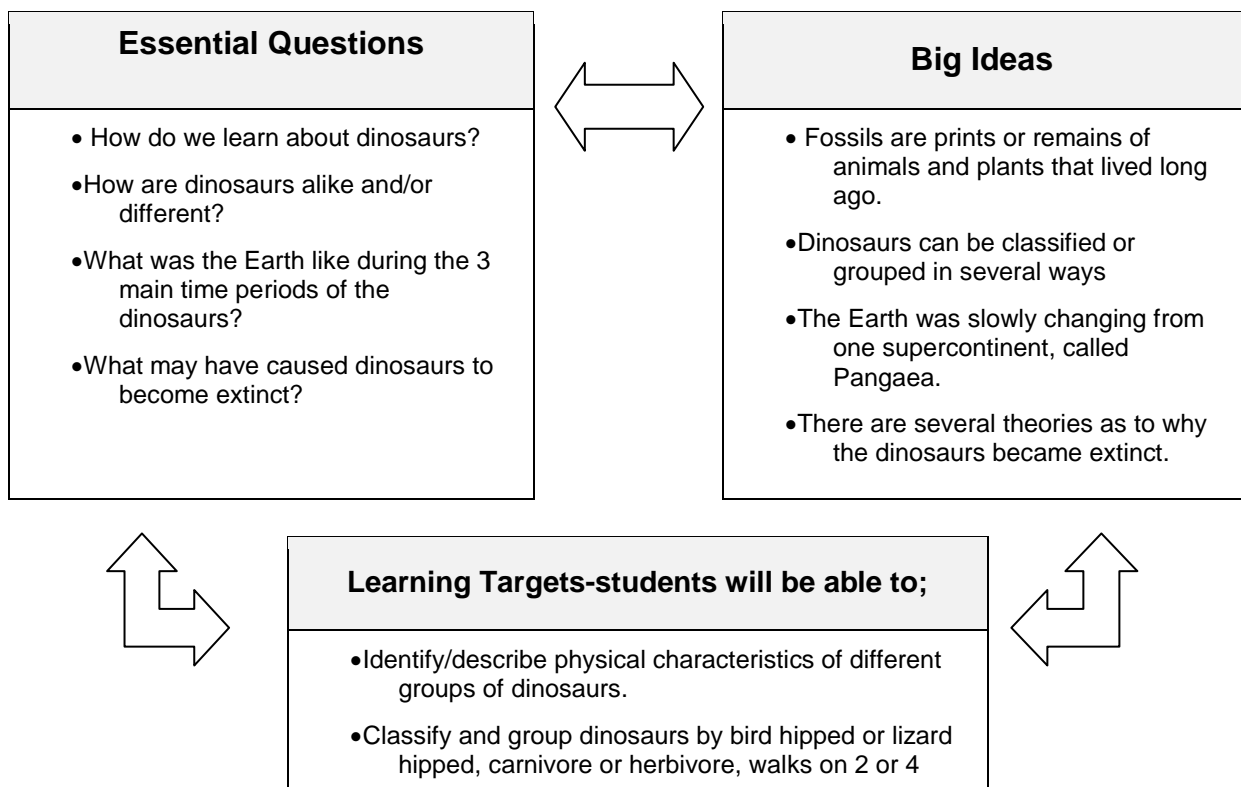
Approaches to Learning

- Observation Skills
- Inquiry Skills
- Analyzing Skills

Learning Experiences	Teaching Strategies
<ul style="list-style-type: none"> •Class Discussions •Internet explorations •Homework assignments/projects •Hands-on activities and experiments •Problem-solving activities •Group reading and discussion of trade books •Class trip to LVR Planetarium 	<ul style="list-style-type: none"> •Direct Instruction: Teaching methods will include lectures, reading of trade books, internet exploration, introduction of key terms, oral questioning , and viewing of videos •Differentiated Instruction •Interdisciplinary Activities •Cooperative learning Activities •Reinforcement and Remediation
Resources	
<ul style="list-style-type: none"> •Internet: Web Sites •Non-fiction Trade Books •Classroom Activ-Board • Student workbook- <u>Our Planet Earth</u> •Videos- Magic School Bus •United Streaming Videos •Reproducible Student Booklets •Posters and Worksheets •Equipment •LVR Planetarium 	

Grade 1 Science

Unit Title	1.4 Plants and Animals of Long Ago
Time frame	Marking period
21 st Century Themes	Critical Thinking and Problem Solving Communication and Collaboration Flexibility and Adaptability Initiative and Self-Direction Productivity and Accountability Social and Cross-Cultural Skills
Interdisciplinary focus and technology integration	Technology: Internet websites Art: Dinosaur Dioramas Language Arts Connection-student dinosaur dictionary, non-fiction trade books, poems Math-Measurement, graphs Social Studies- map reading skills Music- dinosaur songs Performance/Communication-student play, <u>The Prehistoric Play</u>



legs, lived on land or water

- Explain and describe what fossils are and how they are made.
- Recognize that there are different types of fossils.
- Identify the 3 main time periods of the dinosaurs.
- Compare/contrast the Earth and the continents as they moved and separated.
- Identify what other living animals/plants lived during the time of the dinosaurs.
- Identify cause and effect of extinction

Assessment

- Formal and Informal Teacher Observations
- Tests / Quizzes
- Diagrams and Models- dinosaur dioramas
- Homework Assignments
- Group Project- Dinosaur Dig

Differentiation

- Hands-On Activities
- Kinaesthetic Activities
- Re-teach and Enrichment Activities
- Cooperative Learning (Flexible Grouping)

Content Standards

5.1 Science Practices
5.3.P.A.1 5.3.P.B.1 5.3.2.C.2 5.3.2.E.2 Life Science
5.4.2.G.3 Earth Systems Science

Approaches to Learning

- Observation Skills
- Inquiry Skills
- Analyzing Skills

Learning Experiences and Suggested Activities	Teaching Strategies
<ul style="list-style-type: none"> •Class Discussions •Homework assignments •Create and maintain a dinosaur dictionary •Hands-on Activities- for ex: making an imprint fossil, dinosaur skeleton, dioramas, •Problem Solving Activities- Dinosaur Dig, puzzles •Independent Learning Centers •Group reading and discussion of trade books •Field trip to the Museum of Natural History, NYC 	<ul style="list-style-type: none"> •Direct Instruction- Teaching methods will include lectures, reading of trade books, internet explorations, introduction of key terms, oral questioning, and viewing of videos. •Differentiated Instruction •Interdisciplinary Activities •Cooperative Learning Activities •Reinforcement and Remediation
Resources	
<ul style="list-style-type: none"> •Classroom library of non-fiction trade books •Classroom Activ-Board •Dinosaur Videos •Internet: Dinosaur websites, museum website-amnh.org •Posters, Maps, Handouts •Text-Harcourt Science-2nd grade edition, Earth Science Unit C, Chapter 2 •Play script and cassette tape of dinosaur songs •Equipment for fossil project and dig •Real and manufactured dinosaur fossils •Puzzles, Learning Center Activities, games 	