

Diocese of Harrisburg Science Curriculum Grade 2

The following document has been written to incorporate the Pennsylvania State Academic Standards for Science, Environment and Ecology, written by the Department of Education, January 5, 2002

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EARTH	Grade 2	Date Assessed	Resources and Materials
Astronomy	Discuss the phases of the moon – new moon, waxing crescent, first quarter, waxing gibbons, full moon, waning gibbons, last quarter, and waning crescent). Discuss solar and lunar eclipses. (3.4.4.D)	_/_/_	
Earth's Interior and Surface	Explore physical features of Earth (i.e. lakes, mountains, rivers and islands) (3.5.4.A)	_/_/_	
Earth's Waters			
Environmental			
Weather and Climate			

LIFE	Grade 2	Date Assessed	Resources and Materials
Animals	Discuss and observe animal characteristics , basic needs, adaptations and habitats. Identify simple classification of animals. (3.3.4.A)	_/_/_	
Cells and Heredity	Introduce unicellular and multi-cellular organisms . (3.3.4.A) Identify physical characteristics that appear in both parents and offspring and differ between families, strains or species. (3.3.4.D)	_/_/_	
Health and Biology	Introduce major body parts and their function. Discuss importance of exercise for strengthening heart and muscles. (3.1.4.A) (3.3.4.C)	_/_/_	
Microorganisms and Plants			

PHYSICAL	Grade 2	Date Assessed	Resources and Materials
Chemistry			
Electricity and Magnetism			
Energy (Kinetic, Potential and Nuclear)			
Motion and Forces	Identify force of motion by demonstrating pushing and pulling. Explain “rest” and “motion”. (3.4.4.C)	_/_/_	
Waves (sound and light)	Identify sources of light . Demonstrate light refraction and reflection. Use a prism to demonstrate color separation. (3.1.4.D) (3.4.4.B)	_/_/_	

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CURRICULUM MAP	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
EARTH									
Astronomy	•	•	•			•		•	
Earth's Interior & Surface			•	•	•			•	•
Earth's Waters		•		•			•		•
Environmental	•	•		•			•		•
Weather & Climate	•	•		•	•			•	
LIFE									
Animals	•		•	•	•		•		
Cells & Heredity			•			•		•	
Health & Biology	•	•	•		•	•			•
Microorganisms & Plants		•		•			•		
PHYSICAL									
Chemistry				•	•	•		•	•
Electricity & Magnetism		•			•		•		
Energy (Kinetic, Potential & Nuclear)				•	•	•			•
Motion & Forces	•		•				•		
Waves (sound, light)	•		•	•				•	
INQUIRY AND DESIGN									
				•	•			•	