

**Gilford School District
Grade 3 - Science**

Dinosaurs		
Proficiencies	Content	Skills
What are dinosaurs? What can we learn from knowing about these extinct creatures? How do we know that dinosaurs even existed?	Classification by size, type, diet Timeline of dinosaurs and eras Theories of the end of dinosaurs	Students will describe theories of extinction. Students will identify similarities and differences among dinosaurs. Students will classify dinosaurs.
How can we classify dinosaurs?	Characteristics Fossils as evidence	Students will present facts on different dinosaurs. Students will explain that fossils provide evidence about dinosaurs.

Water & Weather		
Proficiencies	Content	Skills
What is weather and how does the environment cause certain types of weather to exist?	Types of weather	Students will describe the water cycle through artistic and technological representations.
Why is it important to track and predict weather and its patterns?	Weather measurement tools	Students will identify the basic influences on weather.
How does the water cycle effect weather?	Water cycle	Students will measure, record, and describe weather conditions using common instruments.
How are weather conditions measured?	Air Pressure Temperature	Students will create a weather report based on knowledge of various weather conditions.

Space		
Proficiencies	Content	Skills
What are the distinct parts of the solar system?	rotation of earth causes night and day	Students will articulate that the rotation of earth causes night and day.
What is the earth's interrelationship to the distinct parts of the solar system? How does the earth's interrelationships affect our daily lives? How does technology help us to understand properties of stars and galaxies?	Sun is a star Sun provides light and heat Moon orbits the Earth Planets orbit the Sun Stars are stationary	Students will demonstrate an understanding of the properties of the Sun and other stars. Students will be able to explain the properties of planets and how their satellites orbit stars. Students will realize that space is immeasurable.

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	Planets move Stars produce light and planets reflect light Universe is vast	
Sound and Light		
Proficiencies	Content	Skills
How are sounds made? What are the properties of sound? What can effect sound?	How sound is made Vibration Pitch	Students will describe how sound is made. Students will change the pitch and volume of sound. Students will create an instrument to demonstrate principles of sound.
What are the properties of light?	Volume Light is reflected, refracted and absorbed.	Students will identify the properties of light.
Simple Machines		
Proficiencies	Content	Skills
What is a simple machine?	Screw	Students will identify and explain all types of simple machines.
How are simple machines used in our daily life?	Pulley	Students will create a complex machine utilizing two or more simple machines.
What are the different types of simple machines?	Lever Wedge Plane Wheel & Axle	