## **St. Peter School**

Quincy, Illinois

## **Grade 3 Science**

Diary map is based on the 2014-2015 school year. Information may change year to year. Months are guidelines and items may be done at different times of the year.

Month	<b>Essential Questions</b>	Content	Skills	Assessment	Resources	Technology
Aug Sept.	Force and Motion What is the tradeoff when using a simple machine to do work?	Force and Motion -Measuring Force -Work in Motion -Levers for Lifting -Friction Stops Motion -Wheels Overcome Friction - The Wheel and Axle	Force and Motion -Observe the effect of pushing and pulling on object -Compare the amount of work accomplished in moving objects a distance -Name the parts of a lever and use a lever to lift a load -Observe the effects of friction on a moving object -Discover how wheels reduce friction -Identify the parts of a wheel and axle and observe how it works	Force and Motion -Whole group discussion -Hands on group activity -Activity Sheet	Force and Motion -Delta Science Modules: Force and Motion (2011) -Delta Science Kit (2011)	Force and Motion -Computer -Elmo -SMART Board -YouTube
Oct.	Force and Motion What is the tradeoff when using a simple machine to do work?	Force and Motion -Gears: Wheels with Teeth -Pulleys: Groovy Wheels -Inclined Planes -Wedges	Force and Motion -Observe how gears transfer force, change the direction and of rotation -Make and use a single fixed and moveable pulley -Measure the amount of force it takes to lift and drag a load up an inclined plane -Observe how a wedge changes the direction of applied force -Use a wedge to lift a load	Force and Motion -Whole group discussion -Hands on group activity -Activity Sheet	Force and Motion -Delta Science Modules: Force and Motion (2011) -Delta Science Kit (2011)	Force and Motion -Computer -Elmo -SMART Board -YouTube

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Nov.	Force and Motion What is the tradeoff when using a simple machine to do work?	Force and Motion -Screw -Simple Machines	Force and Motion -Observe how screws change the direction of force -Compare the amount of force it takes to drive a nail and a screw into a piece of wood -Review the six types of simple machines -Examine a variety of common objects and discuss the features that make them simple machines	Force and Motion -Whole group discussion -Hands on group activity -Activity Sheet	Force and Motion -Delta Science Modules: Force and Motion (2011) -Delta Science Kit (2011)	Force and Motion -Computer -Elmo -SMART Board -YouTube
Dec.	Weather How is an area's climate determined? How do scientists record weather patterns and make predictions? Why do natural hazards occur? How do natural hazards impact humans?	Weather -Weather vs. Climate -Weather Predicting -Natural Hazards	Weather -Understand the differences between weather and climate -Determine a variety of ways to predict the weather -Discuss the causes and effects of natural hazards	Weather -Whole group discussion -Hand on activity -Natural Hazard Flipbook	Weather -Teachers Pay Teachers resources -Guest Speaker Tegan Orpet with KHQA Weather Team	Weather -Computer -Elmo -SMART Board