

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	Essential Questions	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

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	Essential Questions	Content	Skills	Assessment	Resources	Technology
Nov.	<p>Force and Motion What is the tradeoff when using a simple machine to do work?</p>	<p>Force and Motion -Screw -Simple Machines</p>	<p>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</p>	<p>Force and Motion -Whole group discussion -Hands on group activity -Activity Sheet</p>	<p>Force and Motion -Delta Science Modules: Force and Motion (2011) -Delta Science Kit (2011)</p>	<p>Force and Motion -Computer -Elmo -SMART Board -YouTube</p>
Dec.	<p>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?</p>	<p>Weather -Weather vs. Climate -Weather Predicting -Natural Hazards</p>	<p>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</p>	<p>Weather -Whole group discussion -Hand on activity -Natural Hazard Flipbook</p>	<p>Weather -Teachers Pay Teachers resources -Guest Speaker Tegan Orpet with KHQA Weather Team</p>	<p>Weather -Computer -Elmo -SMART Board</p>