

### Kindergarten / Science/ Trimester 1

Time Frame	Content Focus	Skill Focus	Standards
September- November	Earth's Systems	<b>Explore</b> real time weather events such as sunny days, rainy days, hot days.	K-ESS2-1.
	Earth's Systems	<b>Record, plot data and look</b> for patterns of temperature, precipitation, and wind.	K-ESS2-1
	Earth's Systems	<b>Identify</b> the seasonal patterns in temperature and precipitation.	K-ESS2-1
	Earth's Systems & Energy	<b>Explore</b> how the amount of sunlight and heat changes in areas that are shaded.	K-ESS2-1 K-PS3-1 K-PS3-2
	Earth and Human Activity	<b>Discover</b> what supplies you need for severe weather and how to prepare for it.	K-ESS3-2 K-ESS3-3
	Earth and Human Activity	<b>Discover</b> the importance in predicting future weather.	K-ESS3-2 K-ESS3-3
	Earth and Human Activity	<b>Determine</b> how a weather forecast can help you survive.	K-ESS3-2

			K-ESS3-3
	Earth and Human Activity	<b>Design and engineer</b> a way to keep an ice cube from melting.	K-2-ETS-1 K-2-ETS-2 K-2-ETS-3

Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> <li>• Class discussion</li> <li>• Group activities</li> <li>• Observational notes</li> </ul>	<ul style="list-style-type: none"> <li>• Review sheets</li> <li>• Journal (draw or write)</li> <li>• Class discussion</li> <li>• Observational notes</li> </ul>
Main Resources	Supplementary Resources
<ul style="list-style-type: none"> <li>• Mystery Science Lessons</li> <li>• Topical read alouds</li> </ul>	<ul style="list-style-type: none"> <li>• Climate Kids can help educators build lesson plans that align with the Next Generation Science Standards. <a href="http://climatekids.nasa.gov/">http://climatekids.nasa.gov/</a></li> <li>• National Science Teachers Association: <a href="http://ngss.nsta.org/DisplayStandard.aspx?view=topic&amp;id=3">http://ngss.nsta.org/DisplayStandard.aspx?view=topic&amp;id=3</a></li> <li>• Lesson plans and activities: <a href="http://betterlesson.com">betterlesson.com</a></li> <li>• Lesson plans and activities: <a href="http://buggyandbuddy.com/ngss-science/">buggyandbuddy.com/ngss-science/</a></li> <li>• Kids can research types of weather: <a href="http://weatherkids.com">weatherkids.com</a></li> <li>• Short videos about science topics: <a href="http://brainpopjr.com">brainpopjr.com</a></li> <li>• STEAM materials</li> </ul>

**Kindergarten / Science/ Trimester 2**

<b>Time Frame</b>	<b>Content Focus</b>	<b>Skill Focus</b>	<b>Standards</b>
December-February	Motions & Stability-Forces & Interactions	<u>Compare</u> the speeds of several vehicles.	K-PS2-1
	Motions & Stability-Forces & Interactions	<u>Pushing or pulling</u> makes things move, even on the playground.	K-PS2-1
	Motions & Stability-Forces & Interactions	<u>Build</u> a trap for the gingerbread man.	K-PS2-1
	Motions & Stability-Forces & Interactions	<u>Plan, design, build and test</u> their own ramps.	K-PS2-1 K-PS2-2 K-2-ETS-1 K-2-ETS-2 K-2-ETS-3
	Motions & Stability-Forces & Interactions	<u>Explore</u> objects in motion and figure out how to make	K-PS2-1

		them stop.	K-PS2-2
	Motions & Stability-Forces & Interactions	<b>Play</b> kickball and <b>observe</b> how the ball is pushed, pulled, started, stopped, collided with other objects and how it changed position or speed. Students will <b>conduct</b> an investigation. <b>(This is also reinforced in PE in the spring)</b>	K-PS2-1 K-PS2-2 K-2-ETS-1 K-2-ETS-2 K-2-ETS-3
	Motions & Stability-Forces & Interactions	Explore speed and force by conducting an experiment to better understand how forces work.	K-PS2-1 K-PS2-2 K-2-ETS-3

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Main Resources	Supplementary Resources
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	<p>brainpopjr.com</p> <ul style="list-style-type: none"> <li>• Teachtube: short videos http://www.teachertube.com/video/push-and-pull-play-145137</li> <li>• Simple Physics experiments for kids: <a href="https://www.weareteachers.com/simple-physics-experiments-for-kids-pushing-and-pulling/">https://www.weareteachers.com/simple-physics-experiments-for-kids-pushing-and-pulling/</a></li> <li>• STEAM materials</li> </ul>
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Kindergarten / Science/ Trimester 3			
Time Frame	Content Focus	Skill Focus	Standards
March-June	From Molecules to Organisms	<b>Draw conclusions</b> about plant needs and begin to <b>compare</b> them to human needs	K-LS1-1 K-ESS3-1
	From Molecules to Organisms	<b>Discover</b> why animals need the right place to live- habitats.	K-LS1-1
	From Molecules to Organisms	<b>Observe</b> different animal behaviors and work to <b>discover</b> a pattern: all animals seek food in order to survive.	K-LS1-1

	From Molecules to Organisms	<b>Observe</b> different animal behaviors and work to <b>discover</b> another pattern: all animals seek safety in order to survive.	K-LS1-1
	From Molecules to Organisms	<b>Explore</b> basic survival needs of humans and wildlife and <b>draw</b> their own homes (habitats) and neighborhoods.	K-LS1-1
	From Molecules to Organisms & Earth and Human Activity	<b>Identify and discuss</b> ways to prevent or minimize the negative impact of an oil spill and conduct an activity to explore and compare 3 different ways to remove oil from water. <b>(This is also reinforced in health class)</b>	K-ESS3-1
	From Molecules to Organisms & Earth and Human Activity & Earth's Systems	<b>Investigate</b> ways plants and animals can change their environment.	K-LS1-1 K-ESS2-2 K-ESS3-1

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Main Resources	Supplementary Resources
<ul style="list-style-type: none"> <li>• Mystery Science Lessons</li> <li>• Topical read alouds</li> </ul>	<ul style="list-style-type: none"> <li>• PBS Kids Wild Kratts videos: <a href="http://pbskids.org/wildkratts/videos/">http://pbskids.org/wildkratts/videos/</a></li> <li>• National Science Teachers Association: <a href="http://ngss.nsta.org/DisplayStandard.aspx?view=topic&amp;id=3">http://ngss.nsta.org/DisplayStandard.aspx?view=topic&amp;id=3</a></li> </ul>

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