

# Science

## Grades 3, 4 & 5 Essential Standards

**Physical=Green**

**Life=Pink**

**Earth=Blue**

**BOLD** are essential

<u>Essential Standard</u>	<u>Enduring/Priority?</u> <i>"I think this has endurance because..."</i>	<u>Leverage?</u> <i>"Value in multiple disciplines"</i>	<u>Rigorous?</u> <i>"Depth of knowledge?"</i>	<u>Readiness for the Next Level of Learning?</u> <i>"Next instruction/grade level"</i>
3-PS2-1 Forces/motion	Investigate			
3-PS2-4 Magnets	Design problem			
3-LS2-1	Animals form groups			
3-LS3-2	Traits influenced by environment			
3-ESS2-1	Display weather patterns			
3-ESS2-2	Climates in regions of the world			
N	G	S	S	Rocks!
<b>4PS3-1</b>	<b>Relate the speed of an object to the energy of that object</b>	Yes	2	Yes
<b>4PS3-2</b>	<b>Evidence that energy can be transferred by sound, light, heat, and electric currents</b>	Yes	3	Yes

4PS3-3	Predict outcomes and changes in energy when objects collide	No	2	No
<b>4PS3-4</b>	<b>Design, test, and refine a device that converts energy from one form to another</b>	Yes	3/4	Yes
4PS4-1	Model and describe how wavelengths can cause objects to move	Yes	2	Yes
4PS4-2	Light reflecting from objects and entering the eye allows objects to be seen	No	2/3	No
4PS4-3	Compare solutions that use patterns to transfer information	No	2	No
<b>4LS1-1</b>	<b>Plants and animals have internal/external structures that support survival, growth, behavior, and reproduction</b>	Yes	3/4	Yes
4LS1-2	Animals receive different types of information through their senses	No	1/2	No

4-ESS1-1	Fossils in rock layers and changes in landscape over time	No	2/3	No
4-ESS2-1	<b>Evidence of the effects of weathering or rate of erosion by water, ice, wind, or vegetation</b>	Yes	3	Yes
4-ESS2-2	<b>Interpret data from maps to describe patterns of Earth's features</b>	Yes	3	Yes
4-ESS3-1	Energy and fuels are derived from natural resources and affect the environment	No	3	Yes
4-ESS3-2	Generate and compare solutions to reduce impacts of natural Earth processes on humans	No	2	No
N	G	S	S	Rocks!
5-PS1-1	<b>Matter is made of particles too small to be seen</b>	Yes	3	Yes
5-PS1-2	<b>Total weight of matter is conserved when heating, cooling, or</b>	Yes	2/3	Yes

	<b>mixing substances</b>			
5-PS1-3	Identify materials based on their properties-no	Yes	1	No
5-PS1-4	Investigate whether the mixing of two or more substances results in new substances	Yes	2	No
5-PS2-1	Gravitational force exerted by Earth on objects is directed down	No	2	No
5-PS3-1	Energy in animals' food was once energy from the sun-yes	No	1/2	Yes
5-LS1-1	<b>Plants get the materials they need for growth chiefly from air and water-yes</b>	Yes	3	Yes
5-LS2-1	<b>Movement of matter among plants, animals, decomposers, and the environment-yes</b>	Yes	3	Yes
5ESS1-1	Apparent brightness of sun compared to other stars due to relative distance from	No	2	No

	Earth			
<b>5ESS1-2</b>	<b>Graphical displays of daily changes in length and direction of shadows, seasonal appearance of stars</b>	No	3	Yes
5ESS2-1	Describe how geosphere, biosphere, hydrosphere, and/or atmosphere interact	No	3	Yes
<b>5ESS2-2</b>	<b>Graph amounts of salt/fresh water distribution on Earth</b>	Yes	3	Yes
<b>5ESS3-1</b>	<b>How communities use science ideas to protect the Earth's resources and environment</b>	Yes	3/4	Yes
3-5ETS1-1	Define a simple design problem that reflects a simple need or want	Yes	1	Yes
<b>3-5ETS1-2</b>	<b>Generate and compare possible solutions to a problem</b>	Yes	3/4	Yes
3-5ETS1-3	Plan and carry out fair tests in	Yes	3	Yes

	which variables are controlled			
--	-----------------------------------	--	--	--