

# FOSS Virginia K-8 Vertical Progression

The *Science Standards of Learning* for Virginia Public Schools identify academic content for essential components of the science curriculum at different grade levels. The content of the standards, in conjunction with effective instruction, provide a platform for creating scientifically literate students. The *Science Standards of Learning* reflect a vertical progression of content and practices. The Standards of Learning contain content strands or topics that progress in complexity as they are studied at various grade levels in grades K-5 and are represented indirectly throughout the middle and high school courses. These strands are:

- Scientific and Engineering Practices
- Force, Motion, and Energy
- Matter
- Living Systems and Processes
- Earth and Space Systems
- Earth Resources

Grade	Physical Science		Life Science	Earth Science	
	Force, Motion & Energy	Matter	Living Systems & Processes	Earth & Space Systems	Earth Resources
8	Waves Gravity & Kinetic Energy Electromagnetic Force	Chemical Interactions			
7			Heredity & Adaptations Populations & Ecosystems Diversity of Life		
6	Variables & Design			Planetary Science	Weather & Water
5	Energy Sound Design	Mixtures & Solution			Soils, Rocks & Landforms
4			Environments Living Systems	Earth & Sun	
3	Motion & Matter		Structures of Life		Water & Climate
2		Solids & Liquids	Insects & Plants	Weather & Seasons	
1	Sound & Light		Plants & Animals	Air & Weather	
K	Materials & Motion		Animals Two by Two	Trees & Weather	

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Developed at:



THE LAWRENCE HALL OF SCIENCE  
UNIVERSITY OF CALIFORNIA, BERKELEY

Published & distributed by:



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