

### **Planning Guide for Fifth Grade Science**

<b>Topic</b>	<b>PWC Objective(s)</b>	<b>Suggested Time Allocation</b>	<b>PWC Strand</b>	<b>Supporting SOL</b>
Basic Science Skills	5.1.1 / Infused Practice systematized problem solving methods by planning and conducting simple investigations	4 weeks (infused throughout with content-specific objectives)	Reasoning and Logic	5.1 a-h
Cells/Kingdoms	5.2.1 Organisms are made of cells and have distinguishing characteristics (basic cell structures and functions, kingdoms of living things, vascular and nonvascular plants, vertebrates and invertebrates)	6 weeks	Life Science	5.5 a-d
Matter	5.4.1 Investigate and understand that matter has mass, takes up space, occurs as a solid, liquid, or gas (atoms, elements, molecules, and components, mixtures including solutions, effect of heat on the states of matter)	4 weeks	Physical Science	5.4 a-c
Sound	5.4.2 Sound is transmitted and is used as a means of communication (frequency, waves, wavelength, vibration, different media to transmit sound, uses and applications of sound)	4 weeks	Physical Science	5.2 a-c
Light	5.4.3 Investigate and understand basic characteristics of visible light and how it behaves (visible spectrum and light waves, refraction, reflection, opaque, transparent, and translucent, historical contributions in understanding light)	4 weeks	Physical Science	5.3 a-e
Oceanography	5.5.1 Investigate and understand the characteristics of the ocean environment (geological, physical, and biological characteristics, human impact on ocean environments and resources)	6 weeks	Earth/Space Systems and Cycles	5.6 a-c
Geology	5.5.2 Investigate and understand how the Earth's surface is constantly changing (rock cycle, Earth history and fossil evidence, basic structure of the Earth's interior, plate tectonics, weathering and erosion, human impact)	5 weeks	Earth/Space Systems and Cycles	5.7 a-f