

Planning Guide for Fourth Grade Science

Topic	PWC Objective(s)	Suggested Time Allocation	PWC Strand	Supporting SOL
Basic Science Skills	4.1.1 / Infused Basic science skills process skills for planning and conducting investigations	4 weeks (infused throughout the year with content-specific objectives)	Reasoning and Logic	4.1 a-h
Plants	4.2.1 Basic plant anatomy and reproductive processes, plant classification	3 weeks	Life Science	4.4 a-b
	4.2.2 Photosynthesis (sunlight, chlorophyll, water, carbon dioxide, oxygen, and sugar); dormancy	3 weeks		4.4 c-d
Virginia Ecosystems	4.2.3 Plant and animals interactions in Virginia ecosystems: adaptations, communities, food webs, habitats and niches; life cycles; human influences	3 weeks		4.5 a-f
Natural Resources	4.3.1 Virginia natural resources (watersheds, Virginia animals and plants, geological regions, minerals, rocks, ores, and energy sources. Virginia forests, soil, and land)	4 weeks	Environmental Science	4.8 a-e
Force, Motion, Energy, and Matter	4.4.1 Characteristics and interactions of moving objects: speed and direction of objects; friction; kinetic energy	4 weeks	Physical Science	4.2 a-d
Electricity	4.4.2 Characteristics of electricity (conductors, insulators, basic circuits, static electricity, electrical energy, simple electromagnets and magnetism, historical contributions)	4 weeks		4.3 a-f
Weather	4.5.1 How weather conditions and phenomena occur and can be predicted: weather factors (fronts, clouds, storms); meteorological tools	4 weeks	Earth/Space Systems and Cycles	4.6 a-b
	4.5.2 The relationships among the Earth, moon, and sun (motions of the Earth, moon, and sun; seasons; phases of the moon; relative size, position, age, and makeup of the Earth, moon, sun; historical contributions)	4 weeks		4.7 a-d