

# SCIENCE STUDIES WEEKLY—EXPLORATION

## Science Studies Scope and Sequence

### WEEKLY CURRICULUM MAP



**COVERS 100%**

**of Fourth Grade NGSS including  
100% of the Engineering Design  
standards**

#### PHYSICAL SCIENCE

**Week 1 – Investigating Science** (4-PS3.C2.CC, 4-PS4-3, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will be introduced to the nature of science, the scientific process, and the habits required to solve problems. They will identify specific tools that help scientists study different aspects of science.

**Week 2 – Properties of Matter** (4-PS3.C2.CC, 4-PS4.A1.CC, 4-PS4.C1.CC, 4-ESS3.A1.CC, 3-5-ETS1.A2.CC)

Students will explore the concept that all matter has properties that can be seen and measured. They will also discuss some of the specific properties of matter, such as physical and chemical properties.

**Week 3 – Matter Changes** (4-PS3.B1.CC, 4-PS3.C2.CC, 3-5-ETS1.B1.SEP)

Students will discuss how matter can be changed from one state to another and how it can be combined physically or chemically. They will also study how matter moves in solids, liquids and gases.

**Week 4 – Under the Microscope** (4-PS2-2, 4-PS3.B1.CC, 4-PS4.A1.CC, 4-ESS3.B1.SEP, 4-ESS3.C2.CC, 3-5-ETS1.B1.SEP, 3-5-ETS1.C1.DCI)

Students will be introduced to the world of atoms, elements and particles. They will identify some of the tools used to measure and observe these features.

**Week 5 – Energy** (4-PS3-2, 4-PS3.A1.SEP, 4-PS3.B1.SEP, 4-PS3.C1.SEP, 4-PS3.B1.DCI, 4-PS3.A1.CC, 4-PS3.B1.CC, 4-PS3.C1.CC, 4-PS3.C2.CC, 4-PS4.C1.SEP, 4-ESS3-1, 4-ESS3.B1.SEP, 4-ESS3.A1.DCI, 3-5-ETS1.B1.SEP, 3-5-ETS1.B3.DCI)

Students will study the various forms of energy, the flow of energy in a system, and the ways energy can be changed from one form to another. They will define characteristics of different forms of energy. Students will define the difference between renewable and non-renewable forms of energy.

**Week 6 – Light and Sound** (4-PS3.A1.SEP, 4-PS3.C1.SEP, 4-PS3.A1.DCI, 4-PS3.A2.DCI, 4-PS3.B1.DCI, 4-PS3.B2.DCI, 4-PS3.B3.DCI, 4-PS3.C1.CC, 4-PS3.C2.CC, 4-PS4-1, 4-PS2-2, 4-PS4.B1.DCI, 4-PS4.B1.CC)

Students will examine the properties of light and sound. They will define light's characteristics of speed, reflection and refraction. They will also look at components of sound such as vibration, pitch and volume.

**Week 7 – Magnetic Power** (4-PS3.B1.SEP, 4-PS3.C1.CC, 4-PS3.C2.CC, 4-PS4.A1.SEP, 4-PS4.A2.SEP, 4-PS4.B1.CC, 3-5-ETS1-1, 3-5-ETS1.B1.SEP, 3-5-ETS1.B1.DCI)

Students will be introduced to the relationship of electric charges, magnetic forces and electric currents. Students will learn how electrical power is created and used.

**Week 8 – A World in Motion** (4-PS2-2, 4-PS3-3, 4-PS3.A1.DCI, 4-PS3.C1.DCI, 4-PS3.C1.CC, 4-PS3.C2.CC, 4-PS4-1, 4-PS4-3, 4-PS4.A2.SEP, 4-PS4.A1.DCI, 4-PS4.A2.DCI, 4-PS4.B1.DCI, 4-PS4.C1.DCI, 4-PS4.A1.CC, 3-5-ETS1.B2.DCI)

Students will learn about motion, speed and direction. They will explore ways that motion can be predicted, measured and described. Students will also study the components of waves and how friction causes things to stop.

**Week 9 – Force, Matter and Motion** (4-PS3-1, 4-PS3-3, 4-PS3.B1.SEP, 4-PS3.C1.SEP, 4-PS3.A1.DCI, 4-PS3.B1.DCI, 4-PS3.C1.DCI, 4-PS3.C1.CC, 4-PS3.C2.CC, 4-ESS2.B1.SEP, 3-5-ETS1.B1.SEP, 3-5-ETS1.B3.DCI)

Students will study different types of forces and how they affect objects. They will also examine ways that forces can be predicted, measured and described. They will consider the effect of force on different amounts of mass.

#### EARTH-SPACE SCIENCE

**Week 1 – Shaping the Earth** (4-PS4.A1.SEP, 4-ESS1-1, 4-ESS1.A1.CC, 4-ESS2-1, 4-ESS2-2,

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