

SCIENCE STUDIES WEEKLY—DISCOVERY

Science Studies Scope and Sequence

WEEKLY CURRICULUM MAP



COVERS 100%

**of Third Grade NGSS including
77% of the Engineering Design
standards**

Engineering design standards not covered: 3-5-ETS1.A1.SEP, 3-5-ETS1.B1.DCI, 3-5-ETS1.B2.DCI

PHYSICAL SCIENCE

Week 1 – A World of Science (3-PS2.B1.SEP, 3-PS2.B2.SEP, 3-PS2.C1.SEP, 3-PS2.C1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC)

Students will get an exciting overview of the branches of science and how science has changed our world.

Week 2 – Tools of Science (3-PS2-1, 3-PS2-3, 3-PS2-4, 3-PS2.C1.SEP, 3-PS2.D1.SEP, 3-PS2.A2.DCI, 3-PS2.B2.DCI, 3-PS2.B1.CC, 3-PS2.B2.CC, 3-LS1.B1.SEP, 3-LS1.B1.DCI, 3-LS2-A1.SEP, 3-LS4.A1.CC, 3-ESS3.A1.CC, 3-5-ETS1-1)

Students will also study the concepts of scientific inquiry, scientific method, measurement and scientific problem solving.

Week 3 – Building a Universe! (3-PS2-1, 3-PS2-2, 3-PS2.B2.SEP, 3-PS2.C1.SEP, 3-PS2.D1.SEP, 3-PS2.A2.DCI, 3-LS2.A1.SEP, 3-ESS2.A1.SEP, 3-5-ETS1-1, 3-5-ETS1.B1.SEP)

Students will be introduced to atoms, elements and molecules.

Week 4 – Solids, Liquids and Gases (3-PS2.B1.SEP, 3-PS2.B2.SEP, 3-PS2.D1.SEP, 3-ESS3.A1.CC, 3-ESS3.C1.CC, 3-5-ETS1.B1.SEP)

Students will study liquids, solids and gases.

Week 5 – Properties of Matter (3-PS2.A1.SEP, 3-PS2.B1.SEP, 3-PS2.B2.SEP, 3-PS2.C1.SEP, 3-PS2.D1.SEP, 3-PS2.A1.CC, 3-PS2.B1.CC, 3-ESS2.A1.SEP, 3-ESS3.A1.CC, 3-ESS3.C1.CC, 3-5-ETS1-1, 3-5-ETS1.B1.SEP)

Students will explore the properties of various types of matter.

Week 6 – Powering the Universe (3-ESS2.A1.SEP, 3-ESS3.A1.SEP, 3-ESS3.A1.CC, 3-ESS3.C1.CC, 3-5-ETS1-1, 3-5-ETS1-2, 3-5-ETS1-3, 3-5-ETS1.B1.SEP, 3-5-ETS1.C1.SEP, 3-5-ETS1.A1.DCI, 3-5-ETS1.B3.DCI, 3-5-ETS1.C1.DCI)

Students will be given an overview of forms of energy.

Week 7 – Movement (3-PS2-1, 3-PS2-2, 3-PS2.A1.SEP, 3-PS2.B1.SEP, 3-PS2.B2.SEP, 3-PS2.D1.SEP, 3-PS2.A1.DCI, 3-PS2.A2.DCI, 3-PS2.B1.CC, 3-PS2.B2.CC, 3-ESS3.A1.SEP, 3-ESS3.A1.CC, 3-ESS3.C1.CC, 3-5-ETS1-1, 3-5-ETS1-2, 3-5-ETS1-3, 3-5-ETS1.B1.SEP)

Students will be introduced to principles of motion and force.

Week 8 – Observing Energy (3-PS2.A2.SEP, 3-PS2.B2.SEP, 3-PS2.D1.SEP, 3-LS2.A1.SEP, 3-LS2.A1.CC, 3-ESS2.A1.SEP, 3-ESS2.A1.CC, 3-ESS3.A1.CC, 3-ESS3.C1.CC)

Students will consider how energy can be transferred and transformed.

EARTH-SPACE SCIENCE

Week 1 – Technology and Inventions (3-PS2-3, 3-PS2-4, 3-PS2.B1.SEP, 3-PS2.B2.SEP, 3-PS2.D1.SEP, 3-PS2.B1.DCI, 3-PS2.B1.CC, 3-PS2.B2.CC, 3-ESS3.A1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will investigate the uses of simple machines and modern technologies.

Week 2 – Our Planet Earth (2-PS2.A1.CC, 3-PS2.C1.CC, 3-LS4.B1.CC, 3-LS4.E1.CC, 3-ESS3.A1.CC, 3-ESS3.C1.CC, 3-5-ETS1-1, 3-5-ETS1.C1.SEP)

Students will study rocks, minerals, soils and layers inside and outside the Earth.

Week 3 – Volcanoes and Earth Movements (2-PS2.A1.CC, 3-PS2.C1.CC, 3-LS4.B1.CC, 3-LS4.C1.CC, 3-LS4.E1.CC, 3-ESS2-2, 3-ESS2.B1.SEP, 3-ESS2.D2.DCI, 3-ESS2.A1.CC, 3-ESS3.B1.DCI, 3-ESS3.A1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will be introduced to volcanoes, tectonic plates and earthquakes.

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Week 4 – Earth Sculptures (3-PS2.A1.DCI, 2-PS2.A1.CC, 3-PS2.B1.CC, 3-PS2.B2.CC, 3-PS2.C1.CC, 3-LS3.A1.CC, 3-LS4.B1.CC, 3-LS4.E1.CC, 3-ESS2-2, 3-ESS2.B1.SEP, 3-ESS2.D1.DCI, 3-ESS3-1, 3-ESS3.B1.DCI, 3-ESS3.A1.CC, 3-ESS3.A2.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will learn about weather, oceans and the water cycle.

Week 5 – Watch the Sky! (3-PS2-2, 3-PS2.C1.SEP, 3-PS2.D1.SEP, 3-PS2.A2.DCI, 3-PS2.B1.CC, 3-PS2.B2.CC, 3-PS2.C1.CC, 3-LS3.A1.CC, 3-LS4.B1.CC, 3-LS4.E1.CC, 3-ESS2-1, 3-ESS2-2, 3-ESS2.B1.SEP, 3-ESS2.D2.DCI, 3-ESS3.B1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will study constellations, the Earth's seasons/climates and the phases of the moon.

Week 6 – The Solar System (3-PS2.D1.SEP, 3-PS2.C1.CC, 3-LS4.B1.CC, 3-LS4.E1.CC, 3-ESS3.A1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will study our solar system with previously presented concepts such as motion, energy and light.

Week 7 – Exploring the Universe (3-PS2.D1.SEP, 3-PS2.A1.DCI, 3-PS2.C1.CC, 3-LS4.B1.CC, 3-LS4.E1.CC, 3-ESS2.A1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will explore galaxies, stars and some amazing new discoveries.

LIFE SCIENCE

Week 1 – A World of Life (3-LS2-1, 3-LS2.C1.DCI, 3-LS3.B1.SEP, 3-LS4-2, 3-LS4-3, 3-LS4-4, 3-LS4.B1.SEP, 3-LS4.C1.DCI, 3-LS4.D1.DCI, 3-LS4.B1.CC, 3-LS4.C1.CC, 3-LS4.E1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will study the diversity of life on Earth, scientific classification and how living things survive in a variety of environments.

Week 2 – Tiny Life (3-PS2.C1.CC, 3-LS1.A1.SEP, 3-LS2.A1.CC, 3-LS3.B1.CC, 3-LS4-3, 3-LS4.B1.SEP, 3-LS4.A1.CC, 3-LS4.B1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will be introduced to the microscopic world.

Week 3 – Cell Development (3-PS2.C1.CC, 3-LS1-1, 3-LS1.B1.SEP, 3-LS1.B1.DCI, 3-LS1.A1.CC, 3-LS3-2, 3-LS3.A1.DCI, 3-LS3.A2.DCI, 3-LS3.B1.DCI, 3-LS3.B2.DCI, 3-LS3.B1.CC, 3-ESS3.A1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will be introduced to the concept of similar cells developing into different systems.

Week 4 – Animal Kingdom (3-PS2.C1.CC, 3-LS2-1, 3-LS2.D1.DCI, 3-LS2.A1.CC, 3-LS3.A2.DCI, 3-LS3.A1.CC, 3-LS4-2, 3-LS4-3, 3-LS4.B1.DCI, 3-LS4.D1.DCI, 3-LS4.A1.CC, 3-LS4.E1.CC, 3-ESS3.C1.CC, 3-5-ETS1.A1.CC, 3-5-ETS1.A2.CC)

Students will study features and diversity of the animal kingdom.

Week 5 – Ancient Life (3-LS1.A1.CC, 3-LS3.A1.SEP, 3-LS4-1, 3-LS4-2, 3-LS4-3, 3-LS4-4, 3-LS4.A1.DCI, 3-LS4.A2.DCI, 3-ESS3.A1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC)

Students will study dinosaurs, early mammals and other fascinating creatures.

Week 6 – Ecosystems (3-LS1.B1.DCI, 3-LS2.D1.DCI, 3-LS2.A1.CC, 3-LS4-3, 3-LS4-4, 3-LS4.D1.DCI, 3-LS1-1, 3-LS4.C2.SEP, 3-LS4.C1.CC, 3-LS4.E1.CC, 3-ESS3.B1.DCI, 3-ESS3.A1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC)

Students will be introduced to how life works in systems and how living things get energy.

Week 7 – Sharing the Earth (3-LS2.D1.DCI, 3-LS2.A1.CC, 3-LS2.C1.DCI, 3-LS4-4, 3-LS4.C1.SEP, 3-LS4.C1.DCI, 3-LS4.D1.DCI, 3-LS4.C1.CC, 3-LS4.E1.CC, 3-ESS3.A1.CC, 3-ESS3.B1.DCI, 3-ESS3.B1.CC, 3-ESS3.C1.CC)

Students will be introduced to the concepts of adaptation and competition.

Week 8 – The Amazing Human Body (3-LS1-1, 3-LS1.A1.SEP, 3-LS1.A1.CC, 3-LS3.A1.CC, 3-ESS3.A1.CC, 3-ESS3.B1.CC, 3-ESS3.C1.CC, 3-ETS1.A2.CC)

Students will learn about the human organism.

Week 9 – Arthropods (3-LS1-1, 3-LS1.B1.DCI, 3-LS1.A1.CC, 3-LS2.A1.CC, 3-LS4.C1.DCI, 3-LS4.D1.DCI, 3-LS4.A1.CC)

Students will study important and fascinating characteristics of invertebrate animals.