Science F—Weekly Subject List

Week	Subject	Skills
1	Introduction to science and how it works; Types of science; Introduction to living things	Asking Questions and Defining Problems; Constructing Explanations and Designing Solutions
2	Introduction to cells; Systems in your body; Digestive system; Respiratory system	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
3	Circulatory system; Excretory system; How your body fights germs; The importance of water	Developing and Using Models; Engaging in Argument from Evidence
4	Nervous system; Seeing; Hearing; Muscular system; Skeletal system	Developing and Using Models; Engaging in Argument from Evidence
5	Staying healthy; Reproduction; Life cycles of different types of living things	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
6	More life cycles; Human reproductive system; Human life cycles; Introduction to genetics	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
7	Introduction to plants; Plant life cycle; Parts of a plant; Why plants need water	Using Mathematics and Computational Thinking; Planning and Carrying Out Investigations
8	Introduction to seeds; How seeds grow into plants; Types of seeds; The smallest living things; Ecosystems	Developing and Using Models; Engaging in Argument from Evidence
9	What makes up the different states of matter; Properties of matter	Using Mathematics and Computational Thinking; Planning and Carrying Out Investigations; Analyzing and Interpreting Data
10	Matter mixed together; Separating matter that has been mixed; Introduction to elements	Planning and Carrying Out Investigations; Analyzing and Interpreting Data
11	Bonds between elements; Chemical reactions	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
12	Acids and bases; Ionic elements; The periodic table; Properties of metals; Reactiveness of elements	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
13	How we use metals; The importance of hydrogen and carbon	Using Mathematics and Computational Thinking; Obtaining; Evaluating; and Communicating Information; Asking Ques- tions and Defining Problems
14	The gases that are found in earth's atmosphere; Other gases that we use; Composites and polymers	Planning and Carrying Out Investigations; Asking Questions and Defining Problems
15	Introduction to energy; Producing energy; Temperature and energy	Using Mathematics and Computational Thinking; Planning and Carrying Out Investigations; Analyzing and Interpreting Data
16	Introduction to waves; Light and sound waves	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
17	How we can affect light waves for our use; Other types of waves we use	Developing and Using Models; Engaging in Argument from Evidence
18	Static electricity; Electric current; How we can use electric current	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
19	Waves that transmit information; Binary code; Circuits; Forces; Magnets; Gravity	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
20	Friction; Wind resistance; Newton's laws of motion; Inertia; Momentum; Simple machines	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
21	Work; Velocity; Acceleration; Gravity; Weight versus mass; Lift; Flotation; Density	Using Mathematics and Computational Thinking; Planning and Carrying Out Investigations
22	The solar system; Celestial bodies; Details of the Sun; Gravity between celestial bodies; Details of the Moon and its effects on Earth	Planning and Carrying Out Investigations; Analyzing and Interpreting Data
23	Stars and the light they produce; How we explore the universe; The solar system; Other celestial bodies; Other properties of the sun; The relationship between sun; Moon and Earth	Developing and Using Models; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information

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24	Why there is life on Earth; The Moon; Venus; Mars; Jupiter	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
25	Saturn; Uranus; Neptune; Pluto; Asteroids; Comets; Meteorites	Developing and Using Models; Analyzing and Interpreting Data; Obtaining, Evaluating, and Communicating Information
26	Space exploration; Galaxies; Stars	Developing and Using Models; Engaging in Argument from Evidence
27	Variable stars; Constellations; How we see stars	Developing and Using Models; Engaging in Argument from Evidence
28	Constellation stories; Looking at the moon; Layers of the earth; Plate tectonics; Earthquakes; Tsunamis; Volcanic eruptions; Rocks and minerals	Developing and Using Models; Engaging in Argument from Evidence
29	How rocks form; Types of rock; Weathering; Erosion; Ground water	Developing and Using Models; Engaging in Argument from Evidence
30	The water cycle; Rivers; Glaciers; Ocean water	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
31	Saltwater; Freshwater; Natural ice; Water movement; Water affects light; Water in different forms	Developing and Using Models; Using Mathematics and Computational Thinking; Analyzing and Interpreting Data
32	How humans affect water; What people try to do with water; How water can hurt people; How water can help people	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
33	Pollution; Water use; Seasons; Climate zones; Atmosphere layers; Weather	Planning and Carrying Out Investigations; Analyzing and Interpreting Data
34	The carbon cycle; Why we need the right amount of carbon; What affects water in the ocean; How temperature affects air; How air affects weather	Using Mathematics and Computational Thinking; Planning and Carrying Out Investigations
35	Precipitation affects climates on land; Global warming; Rachel Carson	Planning and Carrying Out Investigations; Engaging in Argument from Evidence
36	Rachel Carson; The affect of pesticides	Planning and Carrying Out Investigations; Engaging in Argument from Evidence