CLT California Core Curriculum

SCI 2: Science Grade 2

Our Science 2 course is designed for second grade students and aligns directly to the California State Content Standards. The Course includes lessons covering first, second and third grade standards in order to reach students with differing previous exposure to science as well as pre-teach important topics that come up in third grade that are heavily emphasized in the CA state standards.

Order	A+LS Lesson & Level	CA Science Standard	Lesson Content
1	What Does a Scientist Do? 2	II.4.a,b,f	Discover that a scientist asks questions about the natural world and answers questions by making observations. Learn that scientists use special tools to help them see things and take measurements.
2	Observations 2	II.4.a,d	Learn that scientists ask many kinds of questions and that new observations can help us learn new things. Discover the steps used to answer a question and learn to ask questions from observations
4	Science Jobs 2		Learn that science is a kind of job that people can have. Recognize various types of scientists and learn that scientists are always learning more about the world around us
5	**Review Test 1**		
7	Grouping Matter2	I.1.a II.4.c	Learn to group matter according to taste, color, weight, and size. Organize different objects by texture, hardness, length, and shape.
8	States of Matter 2	I.1.a,b	Learn three states of matter and how to identify solids, liquids, and gases. Discover some properties of matter, including shape, size, and volume
9	Changing Matter 2	I.1.a,b	Discover how matter can be changed from one state to another. Learn how recycling affects matter and the environment
10	**Review Test 2**		
11	Measurement 2	I.4.b,d II.4.b,	Learn to use nonstandard methods of measurement. Discover how rulers, thermometers, and scales are used to measure things
12	Magnets 2	II.1.f	Discover how magnets push or pull objects. Learn about magnetic poles and find out what types of objects are attracted to magnets
13	Light Energy 2	III.1.a,b III.2.a,b,	Recognize light as a form of energy and discover sources of light. Learn the speed of light and how light can do work and be changed into heat or electricity.
14	Position, Motion, Magnetism 3	II. 1.a,b,e,f	Learn to describe the position of an object in relation to yourself. Understand that motion is a change of position. Discover how magnets can change the position of some objects.
15	**Review Test 3**		
16	Heat Energy 2	III.1.a,b	Recognize heat as a form of energy and discover sources of heat, including the sun and fire. Find out how heat can change the states of matter and how heat is conducted through objects. Learn how to use a thermometer to measure heat

SCI 2: Science Grade 2

17	Sound Energy 2	II.1.g	Recognize sound as a form of energy and discover how sound waves move through objects. Learn the concept of a vacuum, sound waves, and the sense of hearing.
18	Sound 3	II.1.g	Identify what causes sound. Understand the meanings of vibration, pitch, and sound waves. Learn how sound travels through matter.
19	**Review Test 4**		
20	Machines 2	II.1.c,d	Discover how machines help us do work through the concepts of forces, pushing and pulling, and energy sources used by machines
21	Machines 1	I.2.b I.3.a II.1.c,d	Identify various energy sources, such as electricity, wind, sun, water, animals, and people. Learn about the use of force to make machines do work. Discover how food is a source of energy for people.
22	Work and Machines 2	II.1.c,d	Define work and energy. Discover the uses of six simple machines, as well as how each machine works and performs.
23	**Review Test 5**		
24	Living Things 1	II.2.a,c,d	Discover where living things come from. Find out that families have both shared and unique characteristics. Learn that living things respond to stimuli, such as hunger and danger.
25	Plants 3	I.2.a,b,e II.2.e,f	Learn important facts about plants. Recognize that plants get water and nutrients from the soil. Identify the functions of various plant parts. Define embryo, seed plants, non-seed plants, and photosynthesis.
26	Seeds and Plants 1	I.2.a,b,e II.2.e,f	Discover the needs of plants, such as sunlight, water, and nutrients. Understand the similarities and differences of plants. Learn how plants produce fruit. Learn the effects the four seasons have on plants.
27	Seeds 2	II.2.e,f	Identify the parts of a seed and learn how seeds grow. Experiment with different seeds. Discover different types of plants, flowers, and trees.
28	Seeds and Plants 2	I.2.a,b,e II.2.e,f	Identify the needs of plants, including water, nutrients, and sunshine. Learn about the reproduction of plants. Discover how the changing seasons affect plants. Learn about plants that grow in different climates, such as the desert and the rainforest.
29	**Review Test 6**		
30	Animals 2	I.2.a,c,d III.3.a,b	Discover the characteristics of animals. Learn various ways animals are grouped, such as mammals, birds, fish, vertebrates, and invertebrates. Learn the purpose of animal coverings.
31	Animal Growth 2	I.2.a,c,d II.2.a,b,c,d	Discover how animals grow, develop, and reproduce. Recognize that animals need things such as food and water to survive.
32	People Need Animals 2	III.3.b	Identify different types of animals and become familiar with different places animals live, such as farms, zoos, homes of people, and nature. Recognize the different uses people have for animals, such as pets, working animals, and animal products.
33	Human Needs 3	I.2.a,c,d	Understand that all humans have basic needs, such as food, water, and shelter. Discover that we get the things we need from the environment
34	**Review Test 7**		

CLT California Core Curriculum

SCI 2: Science Grade 2

35	Our World 2	II.3.e III.3.b	Realize how living things react to changes in the environment, such as cutting down forests, building roads, factories, and homes, pollution, and draining wetlands.
36	The Changing Earth 3	II.3.b,c	Discover how weathering and erosion affect the earth. Learn about soil and rocks and how wind, water, and glaciers cause erosion.
37	Rock and Soil 1	II.3.d	Learn how the earth has changed throughout time. Find out more about dinosaurs, volcanoes, rocks, and soil.
38	Rocks and Minerals 3	II.3.a,b,c	Learn about rocks and minerals. Explore the properties of minerals, including color, weight, and hardness. Recognize the differences between igneous, metamorphic, and sedimentary rocks. Define magnetic minerals, sediments, and mineralogists.
39	**Review Test 8**		
40	Landforms 2	II.3.e	Study the changing earth and learn about landforms, such as plains, hills, mountains, rivers, lakes, and glaciers
41	Fresh Water 2	I.1.a,b II.3.e	Identify sources of fresh water, such as rain, melting snow, and ice. Discover the importance of dams, ground water, and wells. Learn about water pollution
42	Oceans 2	II.3.e	Recognize the difference between ocean water and fresh water. Learn why the human body needs fresh water. Learn about plants and animals that live in the oceans. Discover how the sun warms the oceans.
43	**Review Test 9**		
44	The Sun 2	I.3.c III.4.d,e	Identify the characteristics of the sun and how it is used as a source of light and heat. Learn what effect the sun has on plants. Experiment with shadows. Study the concept of daytime and nighttime.
45	The Sun as a Source of Heat and Light 2	I.3.c	Learn about the sun as a source of heat and light. Discover how the sun warms the earth and the air.
46	Day and Night 2	I.3.c I.4.d II.1.a,b	Recognize the results of the earth's tilt on its axis. Understand rotation, revolution, and the orbit of the earth. Learn how the sun creates daylight and darkness.
47	The Moon 2	II.1.a,b III.4.b,c,d	Discover the size of the moon in relation to the earth. Learn how the moon was formed. Identify the characteristics of the moon's surface and the moon's atmosphere.
48	**Final Exam**		

Please Note: Science 2 reflects CLT's new course outline format! Other course outlines in this format coming soon!

Cornerstone Learning Technology