Code Cube Learning Outcomes





In Lesson 1, students learn how to make the Code Cube[™] display an image that they create.

Activity Connections

- ELA Orient the reader by establishing a situation and introducing a narrator and/or characters.
- SEL Through self-awareness, identify emotions.
- Math Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts.
- Science Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.

| LESSON | |
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| 2 | CHANGING LIGHTS |
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In Lesson 2, students learn how to make the Code Cube display multiple images that they create.

Activity Connections

- ELA Orient the reader by establishing a situation and introducing a narrator and/or characters.
- SEL Through self-awareness, identify emotions.
- Math Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts.
- Science Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.

LESSON

TURN THAT FROWN UPSIDE DOWN

In Lesson 3, students learn how to make the Code Cube display different images based on the position it's facing.

Activity Connections

- ELA Use precise language and domain-specific vocabulary to inform about or explain the topic.
- SEL Through relationship skills, practice communication.
- Math Identify line-symmetric figures and draw lines of symmetry.
- Science Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.



In Lesson 4, students learn how to make the Code Cube display different images based on the position it's tilted.

Activity Connections

- ELA Provide a concluding statement or section related to the information or explanation presented.
- SEL Through relationship skills, practice relationship building.
- Math Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.
- Science Analyze and interpret data from maps to describe patterns of Earth's features.

In Lesson 5, students learn how to make the Code Cube display different images with sounds.

Activity Connections

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- ELA Use a variety of transitional words and phrases to manage the sequence of events.
- SEL Through social awareness, practice perspective taking.
- Math Fluently add and subtract within 1,000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.
- Science Support an argument that the gravitational force exerted by Earth on objects is directed down.

THE SERVER'S TRAY

In Lesson 6, students learn how to make the Code Cube play sounds for different scenarios or situations.

Activity Connections

- ELA Provide a concluding statement or section related to the information or explanation presented.
- SEL Through social awareness, practice appreciating diversity.
- Math Solve problems involving measurement and estimation.
- Science Generate and compare multiple solutions that use patterns to transfer information.

RIDDLED

In Lesson 7, students learn how to make the Code Cube become a prompting device for riddles.

Activity Connections

- ELA Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.
- SEL Through relationship skills, practice social engagement.
- · Math Students create math-centric riddles.
- Science Students use observational skills to represent the world around them.



SLIDE DANCE

In Lesson 8, students learn how to make the Code Cube help people to get moving.

Activity Connections

- ELA Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.
- SEL Through relationship skills, practice teamwork.
- Math Solve problems involving measurement and estimation.
- Science Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.

In Lesson 9, students learn how to make the Code Cube move objects on-screen.

Activity Connections

- ELA Orient the reader by establishing a situation and introducing a narrator and/or characters. Organize an event sequence that unfolds naturally.
- SEL Through responsible decision-making, practice solving problems.
- Math Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.
- Science Support an argument that the gravitational force exerted by Earth on objects is directed down.

In Lesson 10, students learn how to make the Code Cube display a pattern that they create.

Activity Connections

- ELA Orient the reader by establishing a situation and introducing a narrator and/or characters. Organize an event sequence that unfolds naturally.
- SEL Through social awareness, practice empathy.
- Math Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.
- Science Support an argument that the apparent brightness of the Sun and stars is due to their relative distances from Earth.

All activities are designated by a connection to English language arts (ELA), social-emotional learning (SEL), mathematics, and science concepts. The correlations provided in the teacher's guide are for the intended connections and not overtly taught or assessed. Use your discretion when assessing the activities for what works best in your classroom.

