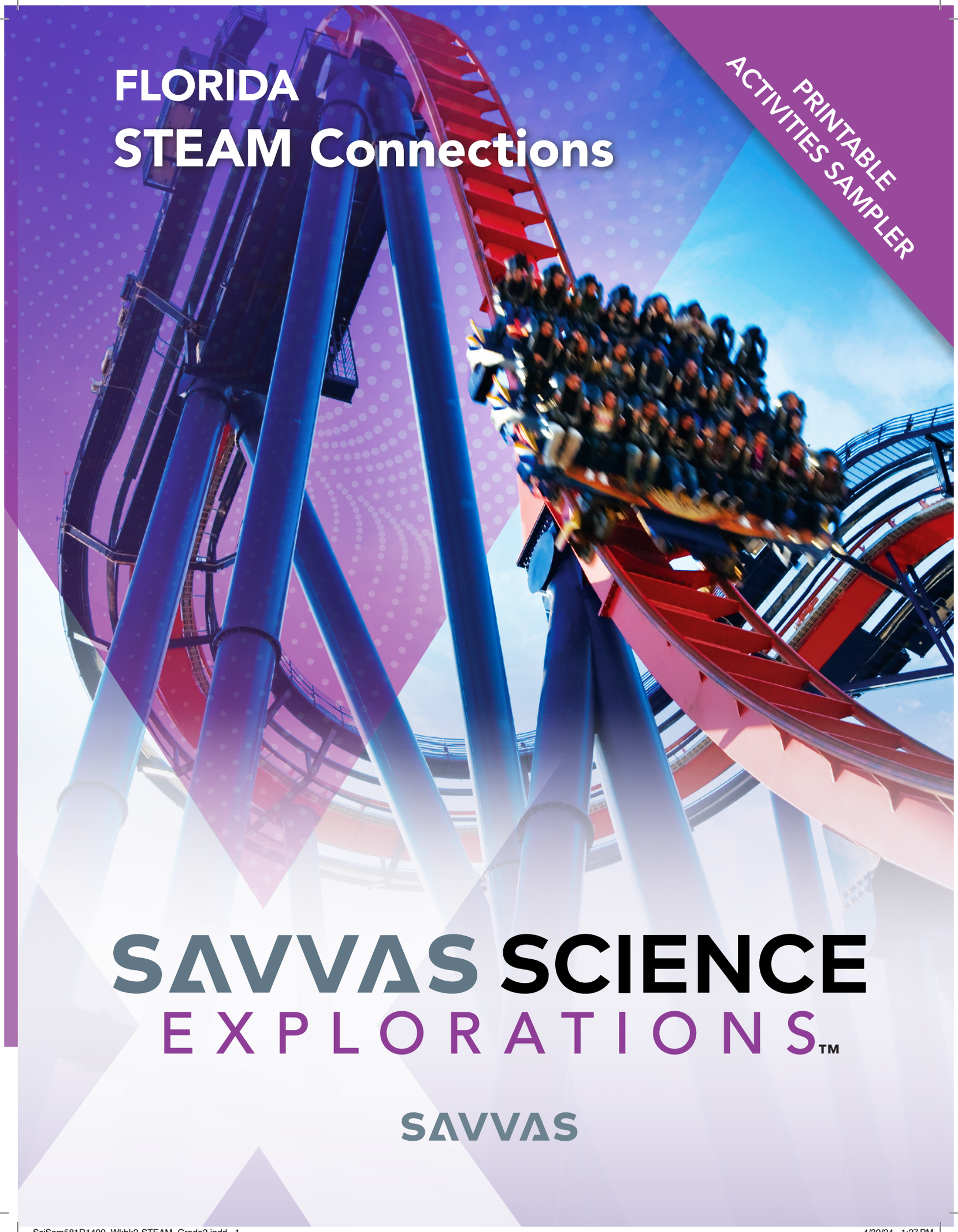
FLORIDA
STEAM Connections

PRINTABLE ACTIVITIES SAMPLER



SAVVAS SCIENCE
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STEAM Activities

Printable Activities Sampler

A Note to Reviewers

Thank you for reviewing *Florida Savvas Science Explorations,* a new program developed for today's Florida science classroom. *Florida Savvas Science Explorations* is written specifically for Florida and meets 100% of the Florida State Academic Standards for Science. We are excited to partner with you to create an exceptional Elementary Science experience for your students and teachers.

This sampler contains one Topic's worth of the STEAM Activities that are available online via Savvas Realize®. These are the student pages; annotated teacher versions are available online.

The STEAM Activities are designed to boost hands-on, active inquiry and help you bring engagement into your science lessons. You'll notice dotted lines indicating where to cut if you would like to use them in science notebooks. Available as editable Google Docs™ and Microsoft Word™ documents, these activities are available to assign, edit, and or print directly from within Savvas Realize®.

Thank you, again, for your review of *Florida Savvas Science Explorations*!

Name _____

Design a Class Mural

A mural is a very large picture on a wall.

You will work with classmates to make a mural for your classroom. You will make one part of the mural.

Brainstorm and Plan

Choose a material and change its properties. You can only fold or cut the material.

1. What do you want your design to look like? Draw the design for your part of the mural.

Cut Line

ELABORATE

Name _____

2. Which materials will work best for your design?

_____

_____

Use Art

3. Use your design to make your art piece.

4. Show your art piece to your classmates.

5. Collaborate with your classmates to make a mural with the class's art pieces.

6. How did you change the physical properties of the material to make your part of the mural?

_____

_____

_____

Cut Line

Name _____

Design a Habitat

A habitat is the natural home of a living thing.

You will design a model of a habitat for either the earthworm or the deer that you wrote a letter to in the Explain worksheet activity.

Design, Model, and Build

Think about how the physical characteristics of the environment will support the animal you chose.

1. What are the needs of the animal? List them.

_____

_____

2. How will the habitat meet each need of the animal?

_____

_____

_____

_____

Cut Line

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Name _____

3. Draw a design for the habitat.

Evaluate Your Design

4. Describe how the physical characteristics of the environment support animals and plants.

_____

_____

_____

_____

_____

Cut Line

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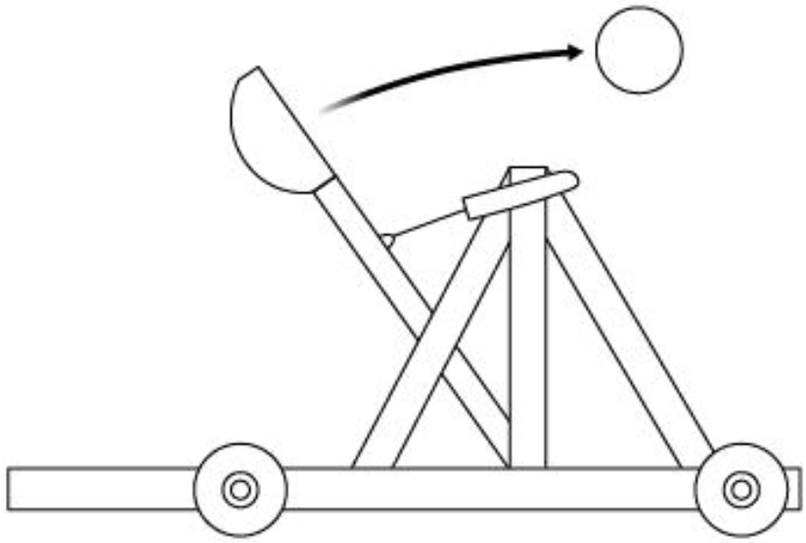
Name _____

Design a Catapult

A catapult is a machine that can launch objects. It uses pulls and pushes.

You will build a model catapult to test how the strength of a pull affects the motion of an object.



Design, Build, and Test

Think about how to design a catapult and how it uses pushes and pulls to change an object's motion.

1. Draw a design for your catapult in your notebook. Use your design to build the catapult.

Cut Line

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Name _____

2. Place the catapult on a piece of tape. Put a pompom on the catapult.
3. Pull the catapult back. Use a light pull.
4. Use tape to mark where the pompom lands.
5. Use a harder pull to launch the pompom again. Repeat step 4.

Record Your Observations

6. Measure and record how far the pompom traveled.

Strength of the pull	How far the pompom traveled (centimeters)
Light pull	
Hard pull	

Evaluate Your Design

7. How did the strength of the pulls affect how the pompom moved?

_____

_____.

Cut Line

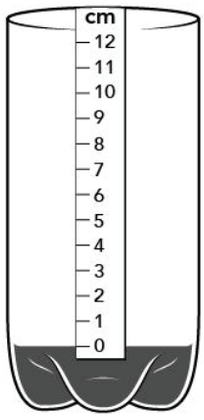
Name _____

Build a Weather Station

A weather station is a set of tools that measure parts of the weather. You will design and build a weather station that allows you to collect data about temperature and rain.

Build a Rain Gauge

1. Measure a 15 cm piece of tape. Use a ruler to mark each cm from 0-12 on the tape.
2. Fill the water up to the place where the sides of the bottle become straight.
3. Place the tape on the bottle. Line up the 0 on the tape with the top of the water.



Cut Line

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Name _____

Build Your Weather Station

4. In your Science Notebook, draw your design for a weather station that collects temperature and rain data. Use your design to build your weather station.

Collect and Record Data

5. Observe the temperature each day. Observe the water in the rain gauge.

6. Record your data in the table.

	Mon	Tues	Wed	Thur	Fri
Temperature (°C)					
Rain (cm)					

Graph

7. In your Science Notebook, use the data you collected to make a bar graph.

Cut Line

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FLORIDA

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Located in Tampa Florida, this roller coaster towers over 200 feet high and soars up to 70 miles per hour. And every year, a multitude of thrill enthusiasts line up to enjoy the ride! How will engineers continue to push the boundaries of physics in order to create thrilling rides while simultaneously preventing their coasters from flying off the track? Explore the effects of forces and gravity in Topic 2, and learn how engineers work with forces and other phenomena in *Savvas Science Explorations*!

GRADE 2

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