

3RD
GRADE



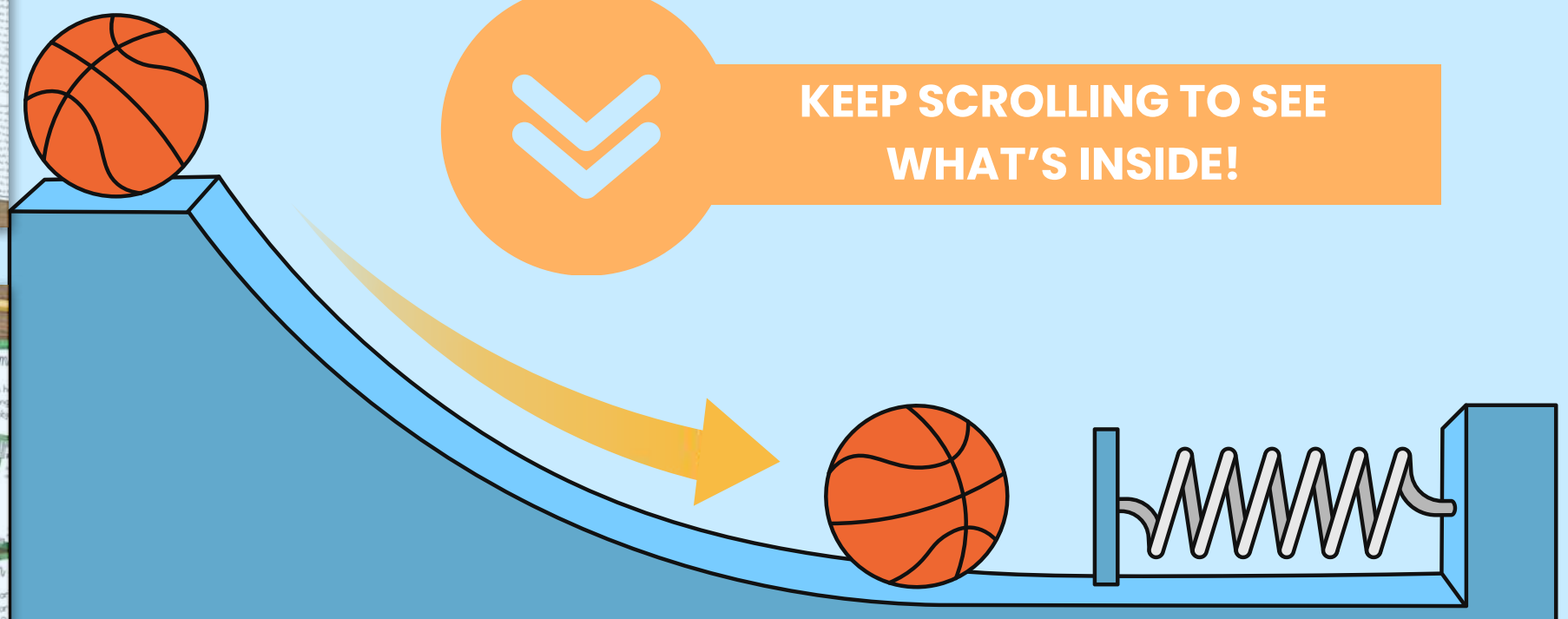
PREVIEW

Transform Science Time with..

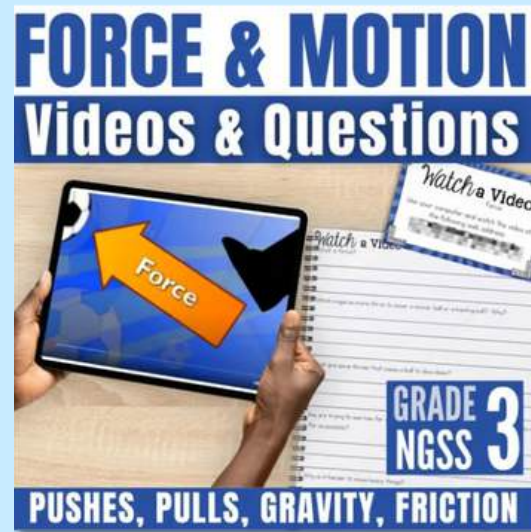
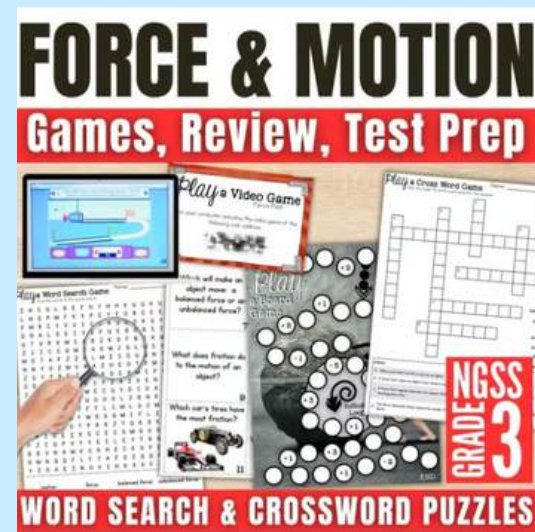
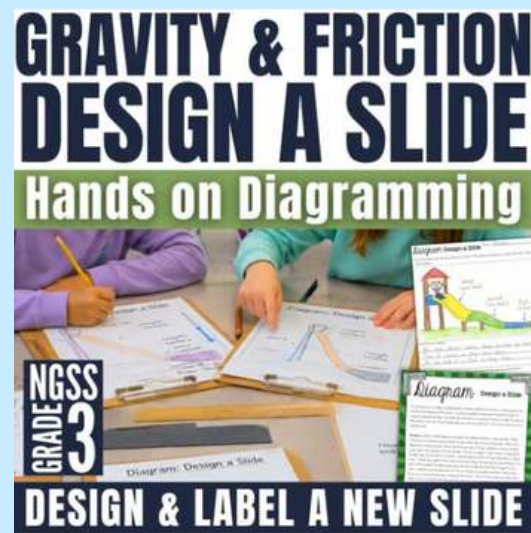
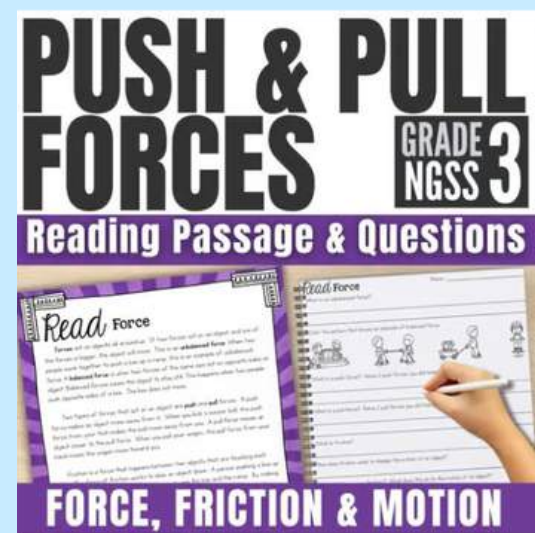
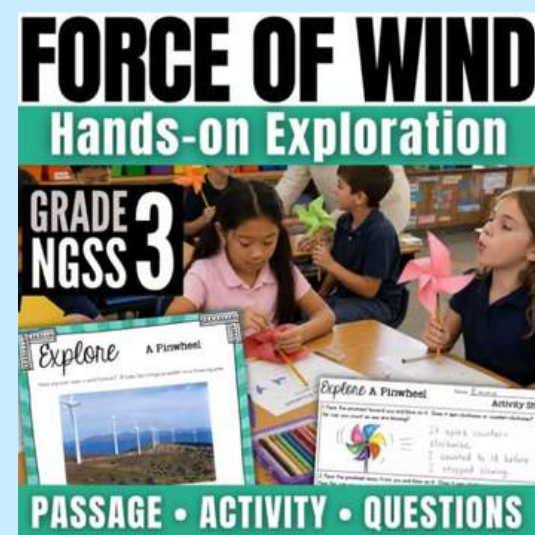
FORCE & MOTION BUNDLE



KEEP SCROLLING TO SEE
WHAT'S INSIDE!



WHAT'S INCLUDED IN THE BUNDLE?



- ✓ 8 Science Stations aligned with the NGSS for 3rd grade
- ✓ 6 Reading passages
- ✓ Hands-on activities
- ✓ Differentiated comprehension questions
- ✓ Digital Videos & Video Games
- ✓ Digital Google Slides & Forms

6 READING PASSAGE



6 Reading Passages that provide
all scientific background
knowledge for each station

Available in two
formats + Digital

Includes pictures and
visuals

PAGE OVERVIEW

FORCE & MOTION

Labs, Projects, and Games



8 Hands-on Science Investigations

NGSS
GRADE 3
BUNDLE

Science Station	Standard	Objective	Materials	Page
Vocabulary Cards				9
Watch: Video	3-PS-2-1 3-PS-2-2 MP2	Watch a video about force and motion and answer questions.	Computer with Internet access. Worksheet or task cards.	18
Play: Video Game	3-PS-2-1 3-PS-2-2 MP2	Play a video game to learn about different surfaces and about friction. Respond to questions and draw a race.	Computer with Internet access. Worksheet or task cards.	39
Investigate: Balloon Race	3-PS-2-1 MP2	See which balloon wins a race and determine what would make it move faster.	Twine, balloons, drinking straws, tape, stands or chairs. Recording sheet.	55
Diagram: New Slide	3-PS-2-1 MP2	Draw a new slide at the park with certain requirements.	Worksheet.	63
Read: Force	3-PS-2-1 R.31 R.33	Read a short passage and answer questions.	Reading passage. Worksheet.	72
Model: Ball Track	3-PS-2-1 W.3.7 MP2	Design a track for a ball to move along and answer questions about force.	Small ball, tracks, ruler. Worksheet.	78
Explore: Pinwheel	3-PS-2-1 3-PS-2-2	Create a pinwheel and explore making it move by blowing on it from different directions.	Pinwheel. Worksheet.	88
Sort	3-PS-2-1	Sort cards into push and pull motions. Justify the sort.	Printed cards or cut & paste worksheet. Explanation worksheet.	98
Answer Keys				110

Force & Motion Science Stations

These Science Stations have several different ways students can display their understanding. Most of the variations are similar to each other, but differentiated for various classrooms and learning styles. Included are worksheets for both short-answer and fill-in-the-blank, and task cards for both short-answer and multiple choice responses. To provide even more support, give students a word list for the fill-in-the-blank options. Also included are vocabulary cards in two formats which could become a ninth station if needed.

Students are encouraged to use their Science Journals with the task cards, but worksheets are provided as well. Use the checklist to monitor student progress through the stations.

The Science Stations are designed to last about 20 minutes each. Students may do one a day for 8 days or 2 a day for four days. The following checklists will help you organize the stations.

Watch a Video

Students watch a video about force and answer questions about how to affect force. Students will need a computer.

Read a Passage

Students will read a passage about force and answer questions about push and pull.

Play a Video Game

Students play a video game that runs a car along different surfaces. Students answer questions about friction. Students will need a computer.

Create a Model

Students will model how to create a bigger force and answer questions about their model.

Investigate

Students investigate how a balloon moves based on the size of the balloon and answer questions about how it moves.

Explore

Students will explore how a pinwheel moves and answer questions about it.

Draw a Diagram

Students will draw a diagram of a slide per certain specifications, label their diagram, and answer questions about it.

Sort

Students sort cards into push and pull categories and explain why they sorted the cards that way.

Science Stations Overview

Watch a Video

At this station, students will watch a video relevant to the topic and answer questions. You have the option of the included worksheet with the questions or use task cards and have students respond in their science journals.

Read a Passage

Students read a short passage about the topic and answer questions about the information in the passage. You have the option of the included worksheet with the questions or use task cards and have students respond in their science journals.

Play a Video Game

Students play an online video game and answer questions about the experience. You have the option of the included worksheet with the questions or use task cards and have students respond in their science journals.

Create a Model

Students use materials to illustrate the science concept and answer questions. You have the option of the included worksheet with the questions or use task cards and have students respond in their science journals.

Investigate

Students use materials to investigate the science topic by following directions and recording results. Students answer questions about the investigation.

Explore

Students create a sample and manipulate it using the new science concepts they have learned. Students answer questions based on the effects.

Draw a Diagram

Students draw and label a diagram specific to certain requirements. Students then explain how their diagram meets the requirements.

Sort

Students sort cards into groups or put them in a specific order. Students record the sort and then describe their reasoning.

Materials Checklist Force & Motion

Use the following checklist to make sure you have all the materials you need for your stations.

Watch a Video

- ☐ Computer
- ☐ Directions Card
- ☐ Worksheet
- ☐ Task Cards
- ☐ Science Journal

Read a Passage

- ☐ Reading Passage
- ☐ Worksheet

Play a Video Game

- ☐ Computer
- ☐ Directions Card
- ☐ Worksheet
- ☐ Task Cards
- ☐ Science Journal

Create a Model

- ☐ Directions Card
- ☐ Worksheet

Investigate

- ☐ 2 5-foot lengths of Twine
- ☐ 2 balloons per person
- ☐ 2 drinking straws
- ☐ tape
- ☐ 4 stands
- ☐ Directions Card
- ☐ Worksheet
- ☐ Task Cards
- ☐ Science Journal

Explore

- ☐ Directions Card
- ☐ Pinwheel
- ☐ Worksheet
- ☐ Task Cards
- ☐ Science Journal

Draw a Diagram

- ☐ Worksheet
- ☐ Directions Card

Sort

- ☐ Directions Card
- ☐ Sort Cards
- ☐ Short Answer Worksheet
- ☐ Cut & Paste Worksheet

Unit Overview

Science Station Details

Materials Checklist

Science Station Overview

ONLY IN THE BUNDLE

force

A push or a pull
on an object.

**unbalanced
force**

More than one force acts on an object.
If one of these forces is greater
than the other, it is unbalanced force.
This will cause the object to move.

**VOCABULARY CARDS
WITHOUT PICTURES**



**unbalanced
force**

More than one force
acts on an object. If
one of these forces
is greater than the
other, it is
unbalanced force.
This will cause the
object to move.



force

A push or a pull
on an object.



friction

A force that
occurs when two
objects touch.
Friction
down this
are m



**balanced
force**

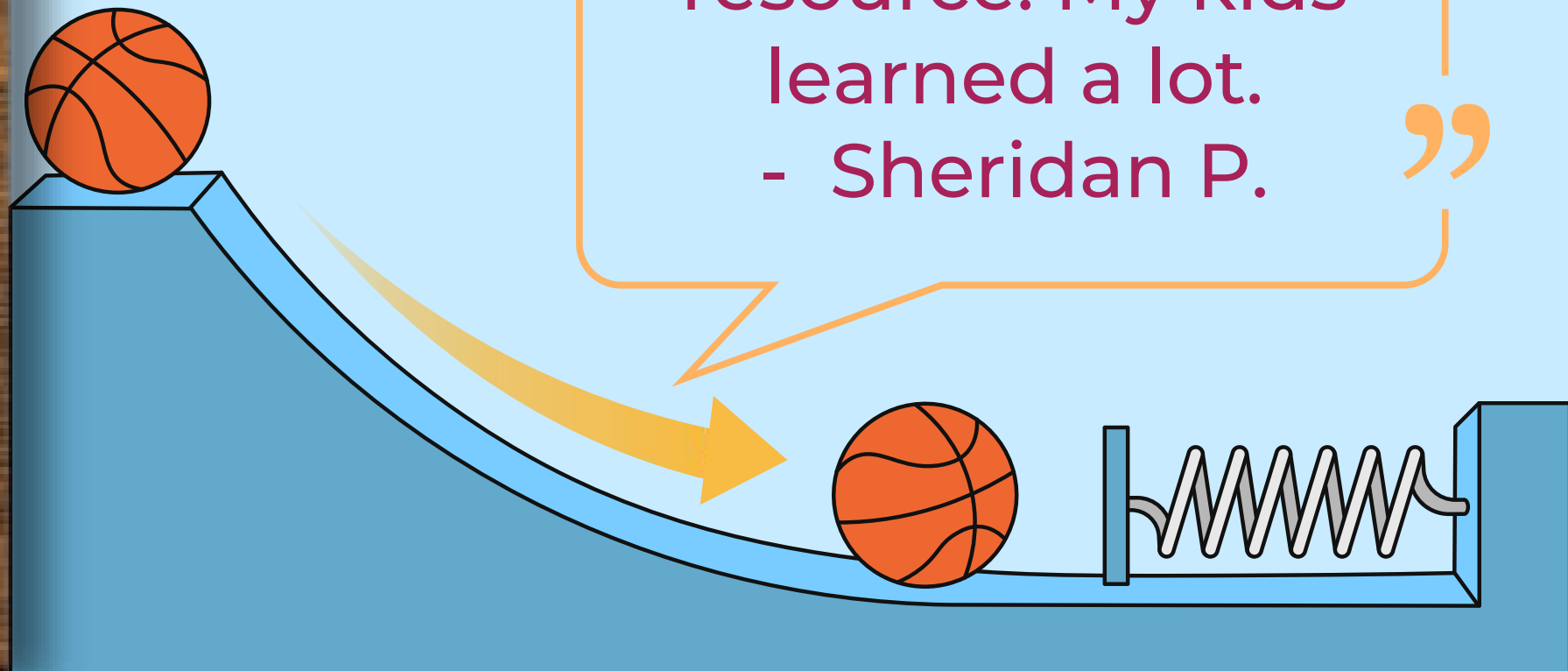
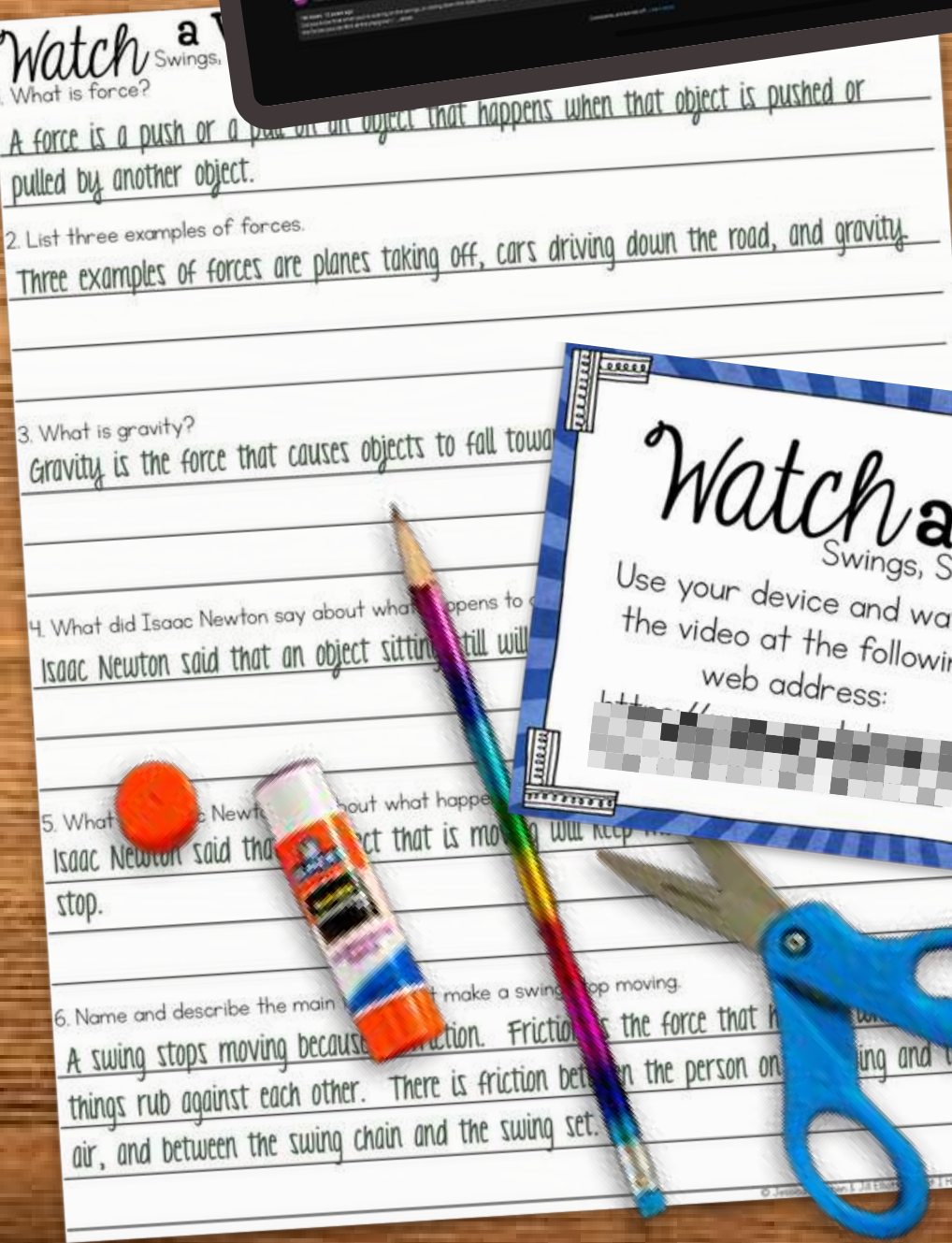
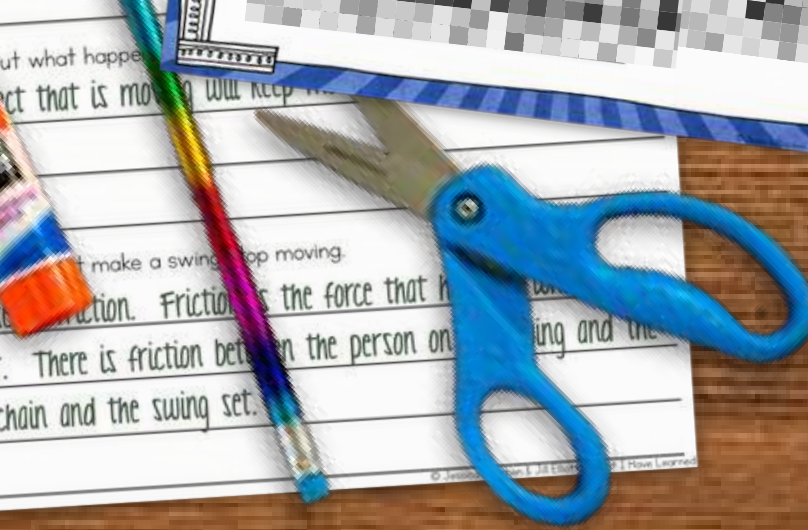
More than one force
acts on an object. If
the forces are the
same, it is balanced
force. This will
cause the object to
stay in its place.

**VOCABULARY CARDS
WITH PICTURES**

WATCH STATION

STUDENTS WATCH ONE OF TWO VIDEOS ABOUT SWINGS, SLIDES, AND MOTION THROUGH ENGAGING SCIENCE VIDEOS AND THEN ANSWER QUESTIONS ABOUT THE VIDEOS.

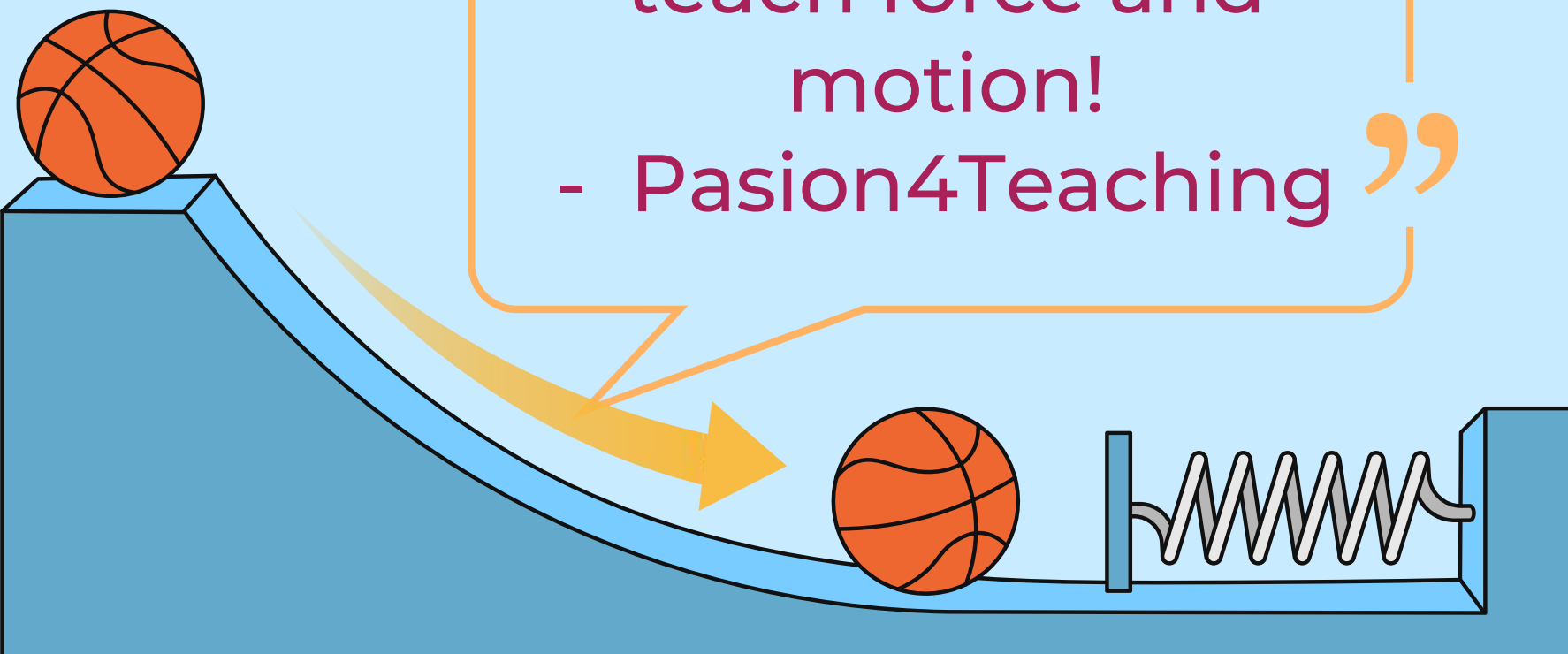
“Thank you for this resource. My kids learned a lot.”
- Sheridan P.



PLAY STATION

STUDENTS PLAY A BOARD GAME WITH OTHER STUDENTS OR DO A CROSSWORD OR WORD SEARCH PUZZLE ABOUT INTERACTIVE GAMES FOCUSED ON FORCE, FRICTION, AND MOTION.

“Great game to help teach force and motion!”
- Pasion4Teaching



INVESTIGATE STATION

STUDENTS CONDUCT AN BALLOON RACE EXPERIMENT EXPLORING BALANCED AND UNBALANCED FORCES.

“My students really enjoyed the friendly competition.”
- Amy T.

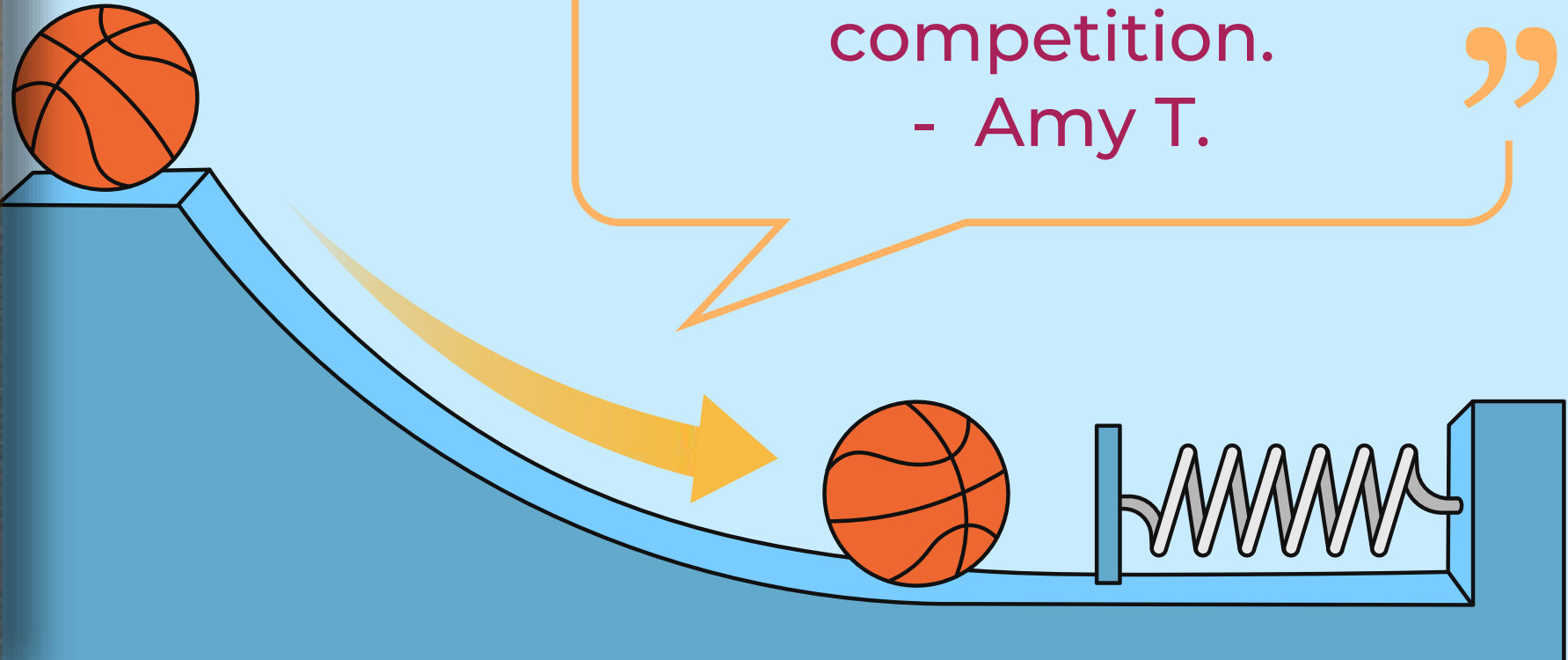
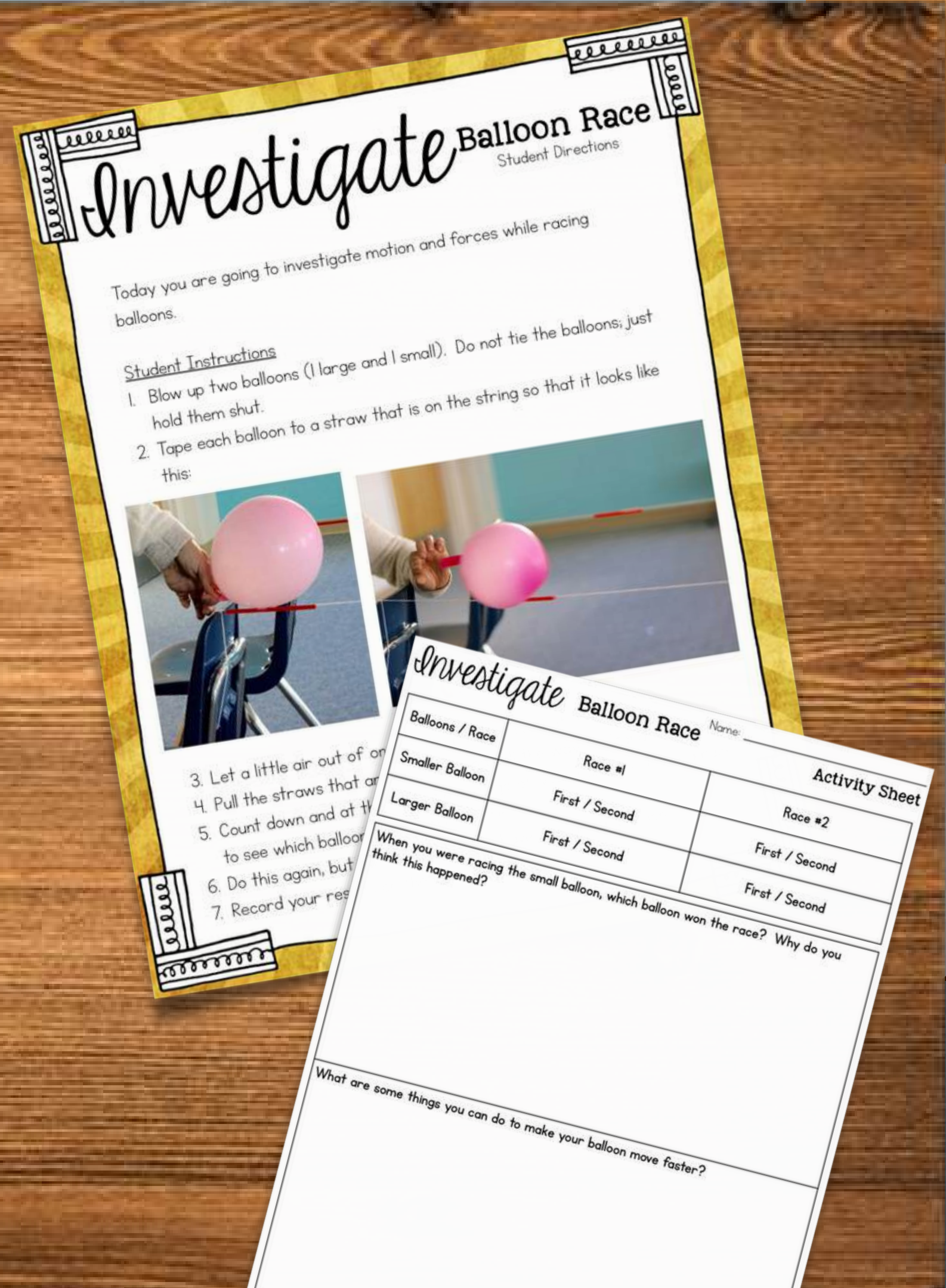


DIAGRAM STATION

STUDENTS DESIGN A PLAYGROUND SLIDE TO DEMONSTRATE FRICTION AND GRAVITY, AND ANSWER QUESTIONS ABOUT THE DIAGRAM.

“ So creative and innovative!
- Tiffeny M. ”

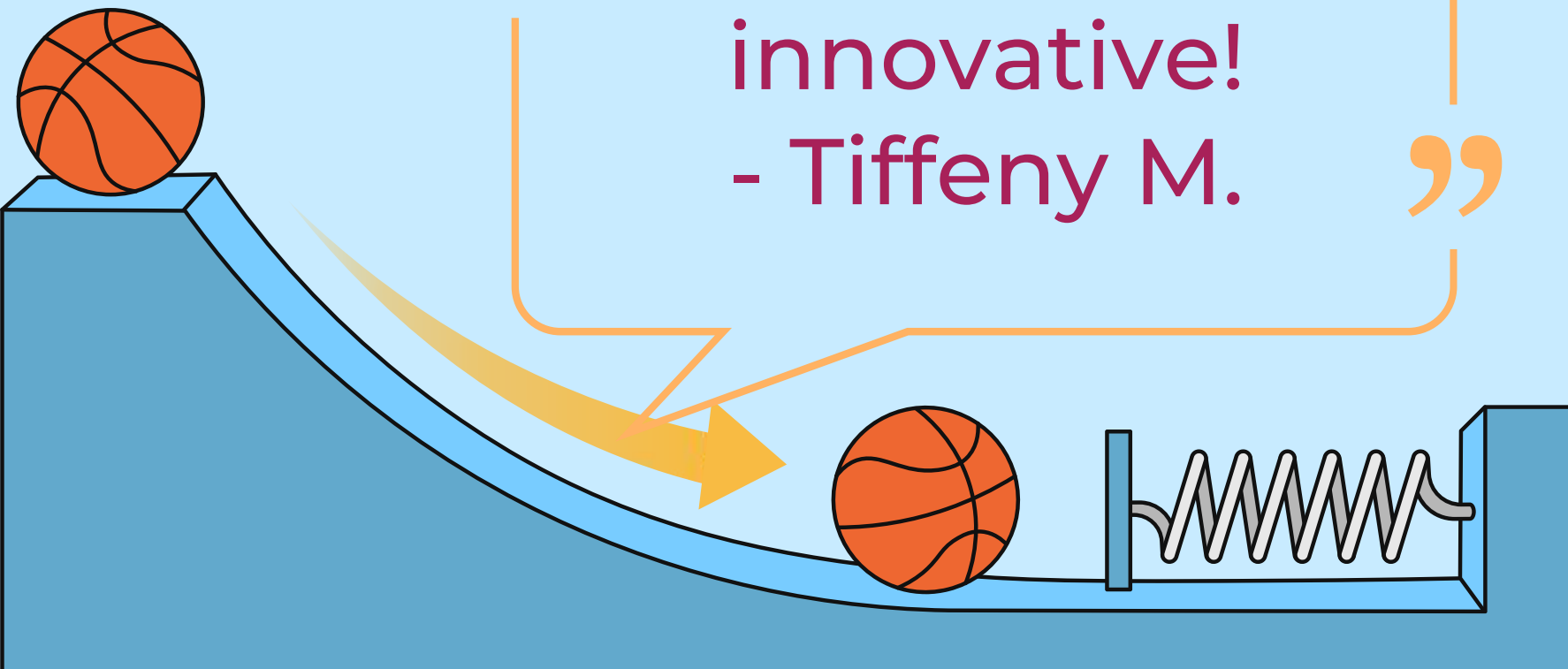


Diagram Design a Slide

Using what you now know about friction, you are going to plan a new slide at the park.

You get to plan the new slide at the park. Your slide must have the following features:

- Make children start out going fast at the top of the slide.
- Slow to a stop at the end of the slide so that they don't get hurt.

Draw this slide that will make children go fast at the beginning and slow to a stop at the end. Label your drawing.

Diagram Design a Slide Name: Leo Thompson

Draw this slide that will make children go fast at the beginning and slow to a stop at the end. Label your drawing.

The diagram shows a slide with a ladder on the left. The slide itself has a steep top section, a smooth middle section, and a bumpy bottom section. A child is shown sliding down. Labels with arrows point to different parts: 'STEEP PART! GO FAST!' points to the top section, 'SMOOTH METAL = NO FRICTION!' points to the middle section, 'BUMPY PART! SLOWS YOU DOWN!' points to the bottom section, and 'FRICTION MAT! STOPS YOU!' points to a blue mat at the end of the slide. A yellow pencil is drawn over the diagram.

Describe your diagram:

My slide starts really high and is very steep. I made it out of very smooth metal on the top part. The end of the slide gets flatter and has a bumpy surface. Then there is a sticky mat at the bottom. This lets you speed down and stop safely.

In your slide that you designed, how do you decrease friction and increase friction?

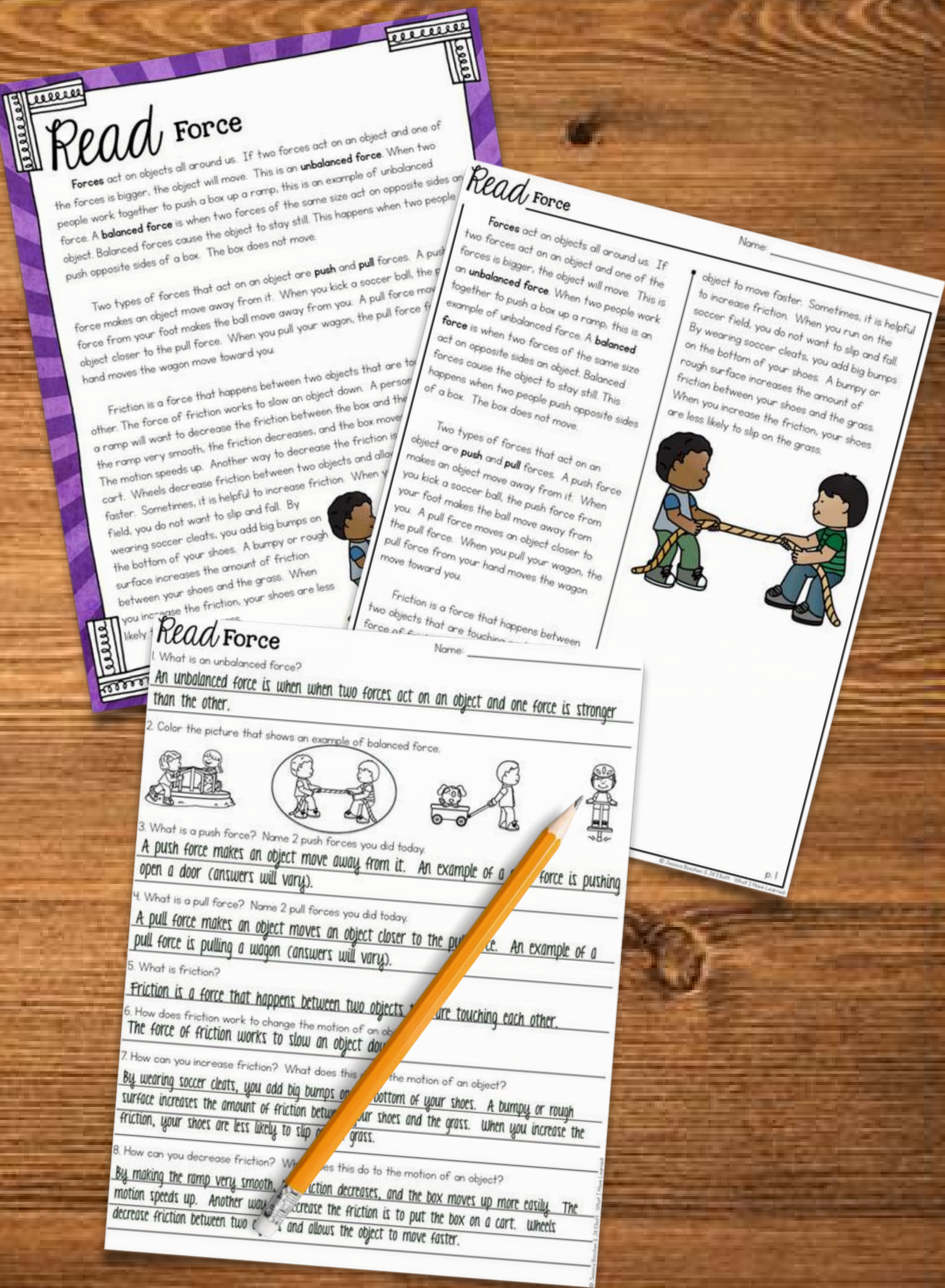
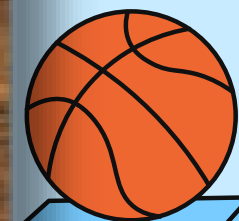
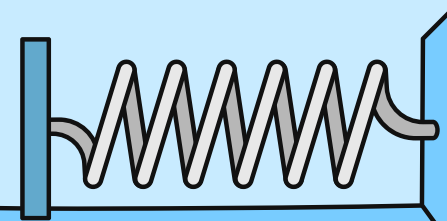
To decrease friction, I made the top of the slide very steep and used a smooth metal material. This makes less friction.

To increase friction, I added a bumpy surface at the end. I also put a friction mat at the very end to make kids stop completely.

READ STATION

STUDENTS READ A PASSAGE ABOUT PUSH AND PULL FORCES AND ANSWER QUESTIONS.

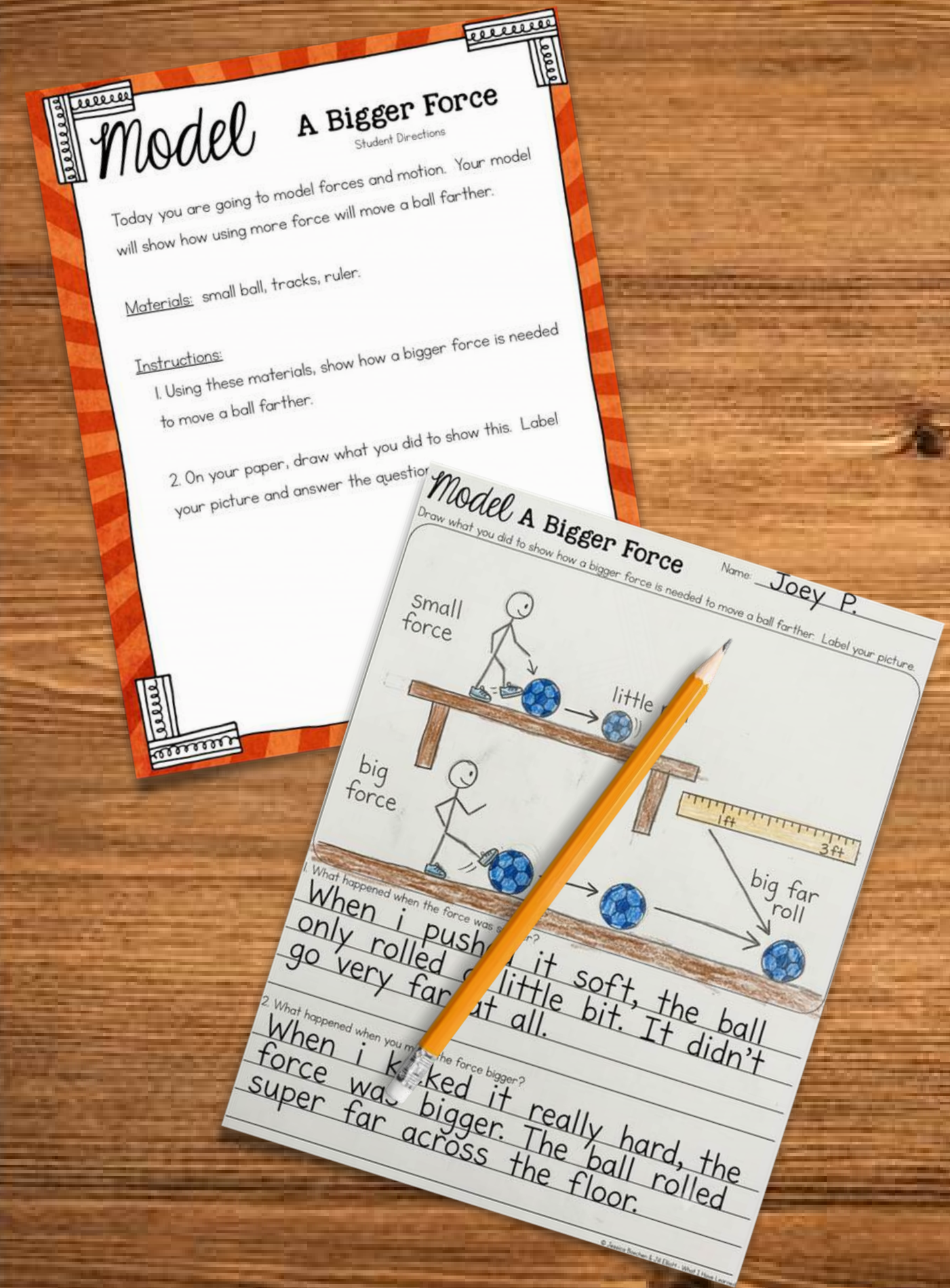
“This resource was a great support to our unit on Forces.”
- David M.



MODEL STATION

STUDENTS BUILD AND TEST A BALL TRACK TO INVESTIGATE FORCE, SPEED, AND MOTION. AND ANSWER QUESTIONS.

“My students were engaged and excited with this activity. LOVE IT!”
- Yvette C.

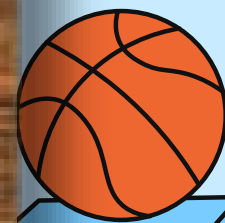


EXPLORE STATION

STUDENTS CONSTRUCT AND TEST A PINWHEEL WHILE LEARNING ABOUT WIND ENERGY.

“This was an engaging way for my scholars to practice this skill.”

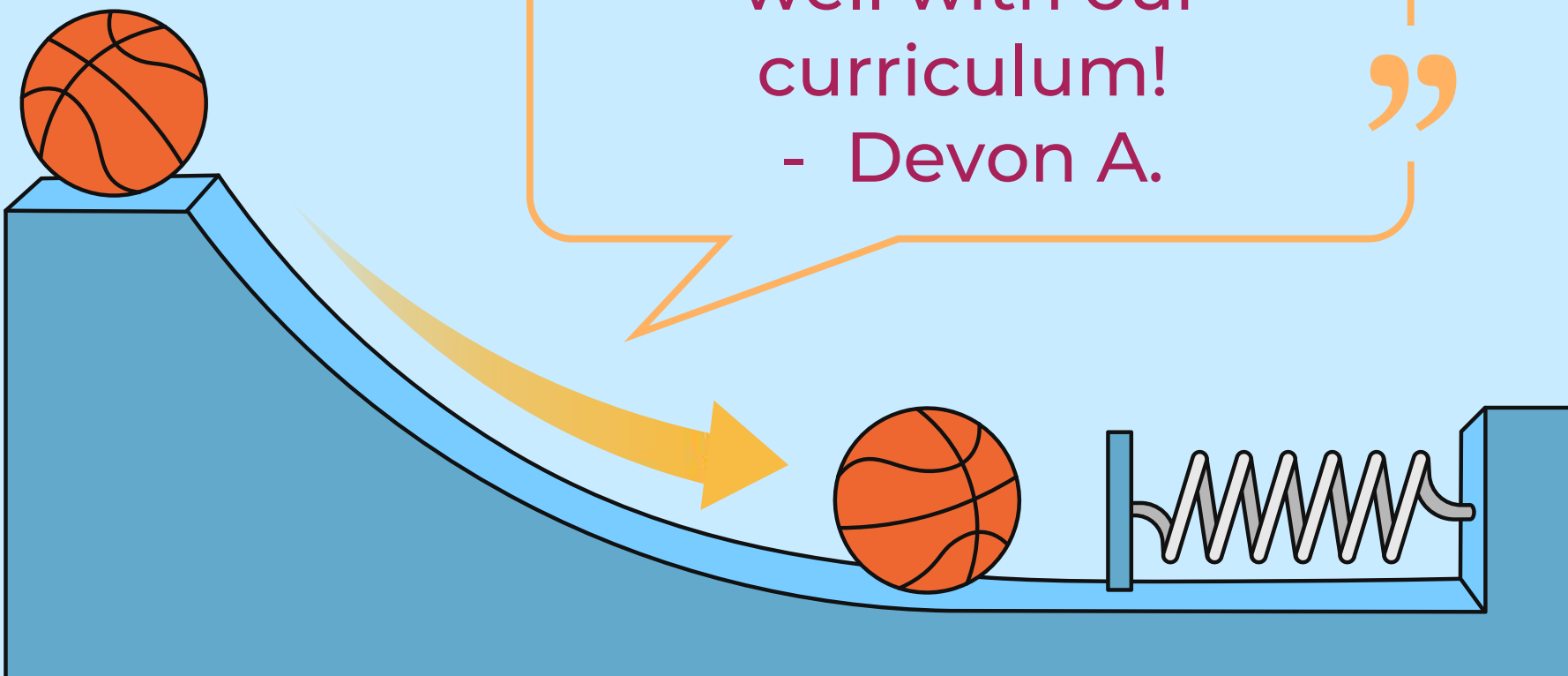
- Dawn N.



SORT STATION

**STUDENTS CLASSIFY REAL-WORLD
EXAMPLES OF PUSH AND PULL
FORCES AND THEN ANSWER
QUESTIONS.**

“Loved this resource
and it aligned very
well with our
curriculum!”
- Devon A.



FORCE & MOTION ACTIVITIES

SUGGESTED USES

Learning Stations

Use all eight stations or just a few as learning stations that students complete at their own pace.

Science Centers

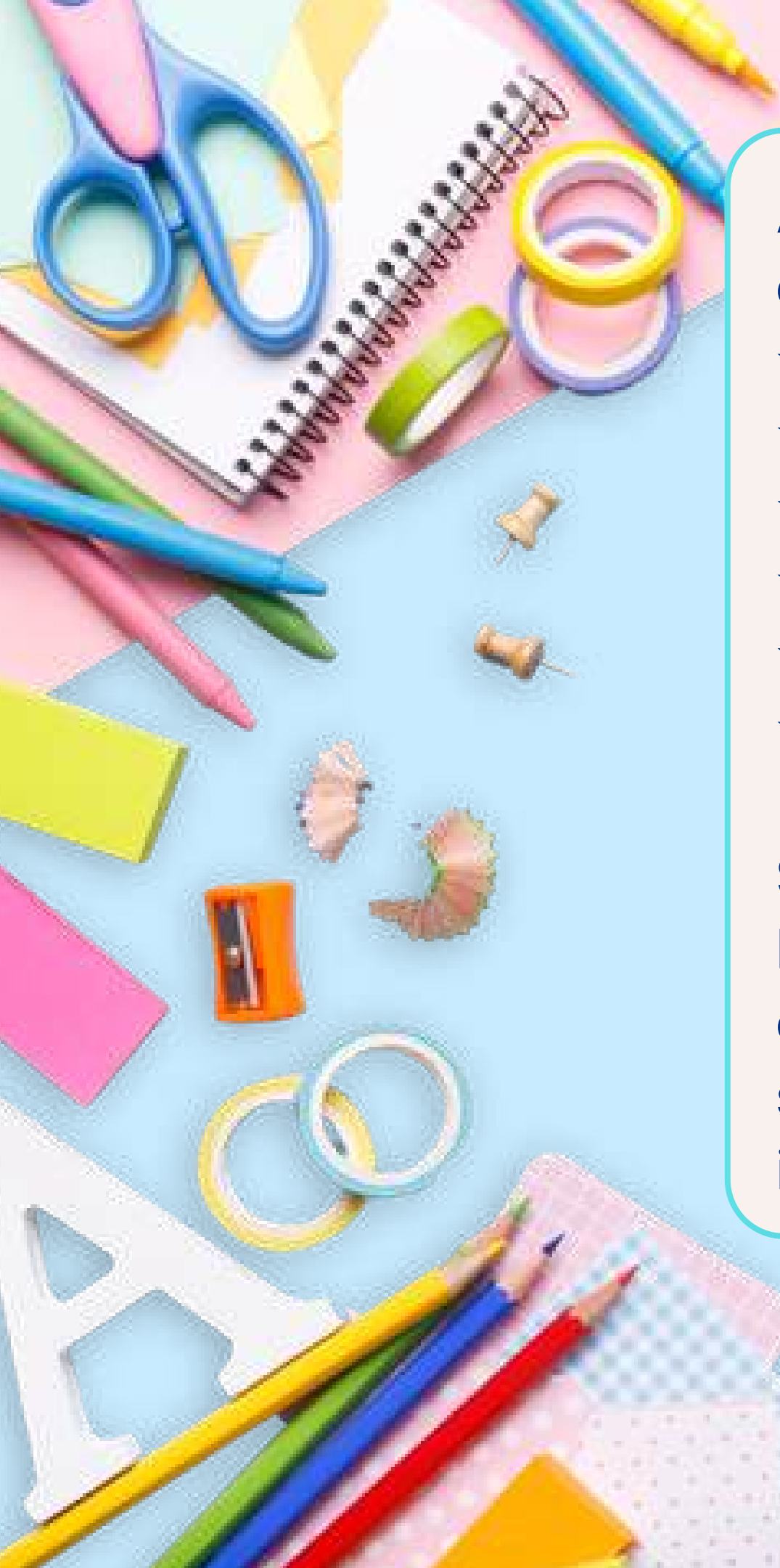
Set up a rotation where students visit each center to complete the activities.

Whole Class

Use the activities in a whole class format.

Small Group

Use the activities with a small group who need extra help.



All activities have the same basic components:

- ★ Student Directions
- ★ Short Answer Worksheet
- ★ Fill-in-the-Blank Worksheet
- ★ Cut & Paste Worksheet
- ★ Short Answer Task Cards
- ★ Multiple Choice Task Cards

Some activities have more reading to build background knowledge and additional worksheets or activity sheets to help organize the new information.

**NOT ALL VERSIONS OF THE PAGES ARE
DISPLAYED ON THE FOLLOWING PAGES,
BUT ALL ARE IN EACH RESOURCE**

DIGITAL VERSIONS

- ✓ Google Forms and/or
- ✓ Google Slides for every station
- ✓ Videos
- ✓ Video Games
- ✓ Digital Crossword Puzzles & Word Searches

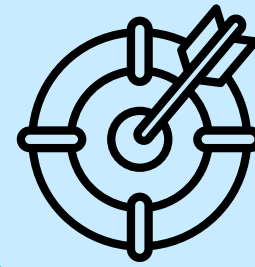
Answer keys provided

YOU WILL LOVE THIS BECAUSE



Eight Engaging Stations in One Resource

Students investigate force and motion through experiments, games, videos, reading, engineering challenges, and interactive sorting activities that keep learning fresh and exciting.



Comprehensive NGSS Alignment

Covers essential third-grade physical science concepts including force, motion, friction, gravity, speed, pushes and pulls, and balanced versus unbalanced forces.



Hands-On + Digital

Blends tactile activities like building models with Google Forms and Slides—engaging all learners in multimodal science practice.

TEACHERS LOVE IT!



This will be a great review for the end of the unit for force and motion. Thank you!

Diva S.



I used this resource with my Grade 2 class as we looked at position and motion and simple machines. They enjoyed the videos and extended the concepts we are currently studying.

Sandra Q.



**CLICK HERE TO ADD
THIS RESOURCE TO
YOUR CART:**

ADD TO CART



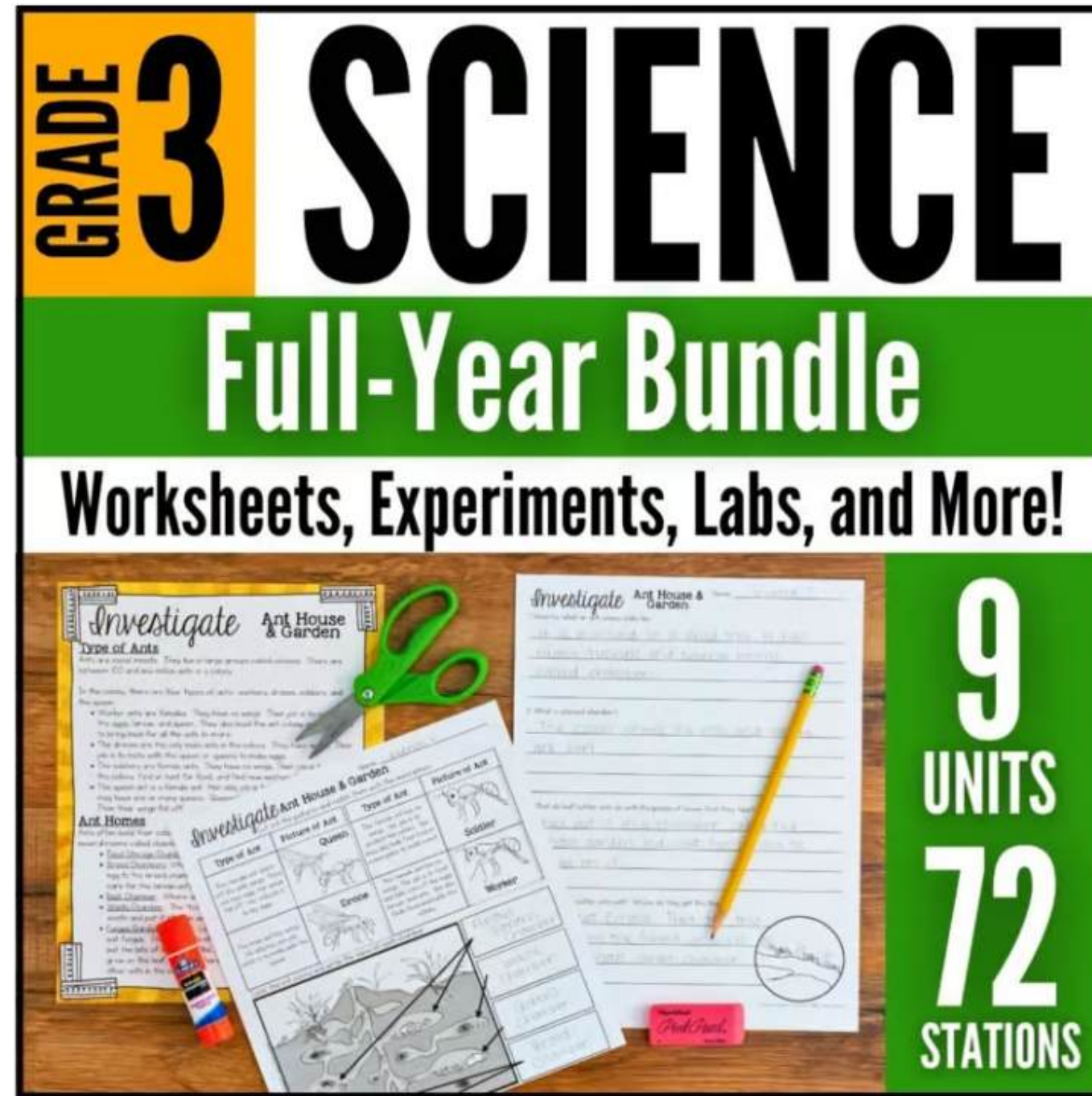
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VALUE**

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My passion is making learning accessible to all students.
I love scaffolding learning, breaking down the concepts and
building them up so that students can see the connections.
I love figuring out the small components that build up to
the big ideas and helping students see it all.



What I have **LEARNED**