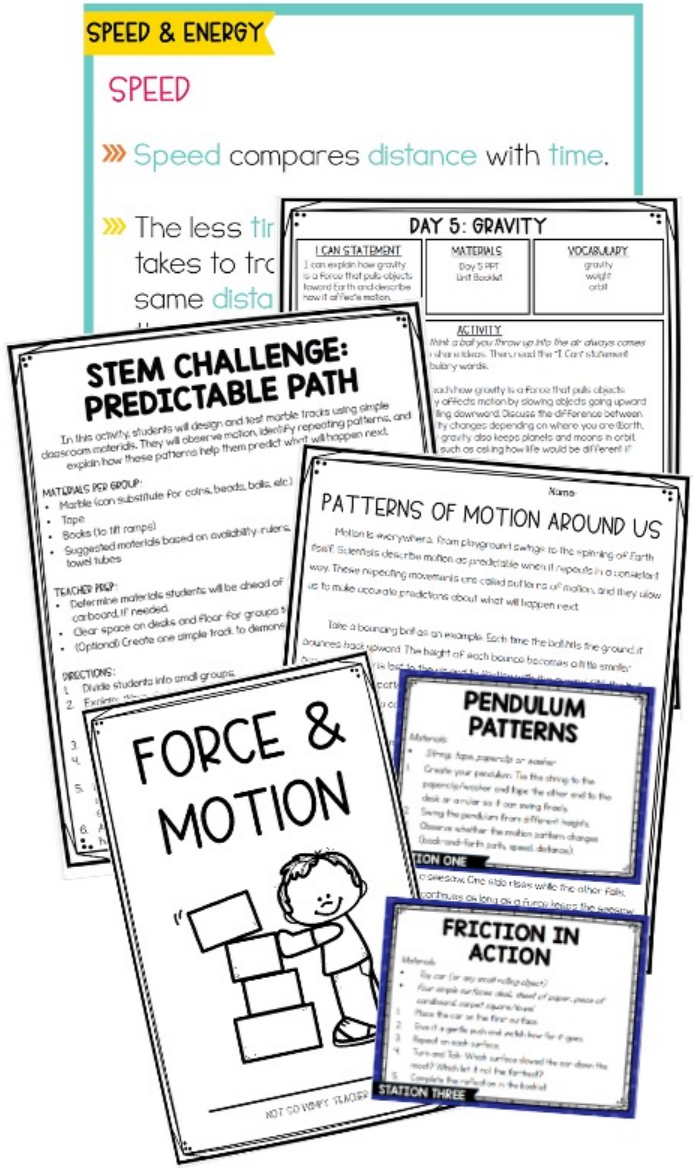
What's Included

- ✓ 5 instructional PowerPoints
- ✓ Daily lesson plans
- ✓ 22 vocabulary cards
- ✓ 20 task cards
- ✓ Booklet with an activity for each day
- ✓ Force & motion science station activities
- ✓ STEM marble predictable path challenge
- ✓ Original reading passages
- ✓ Assessment



10 Days of Activities

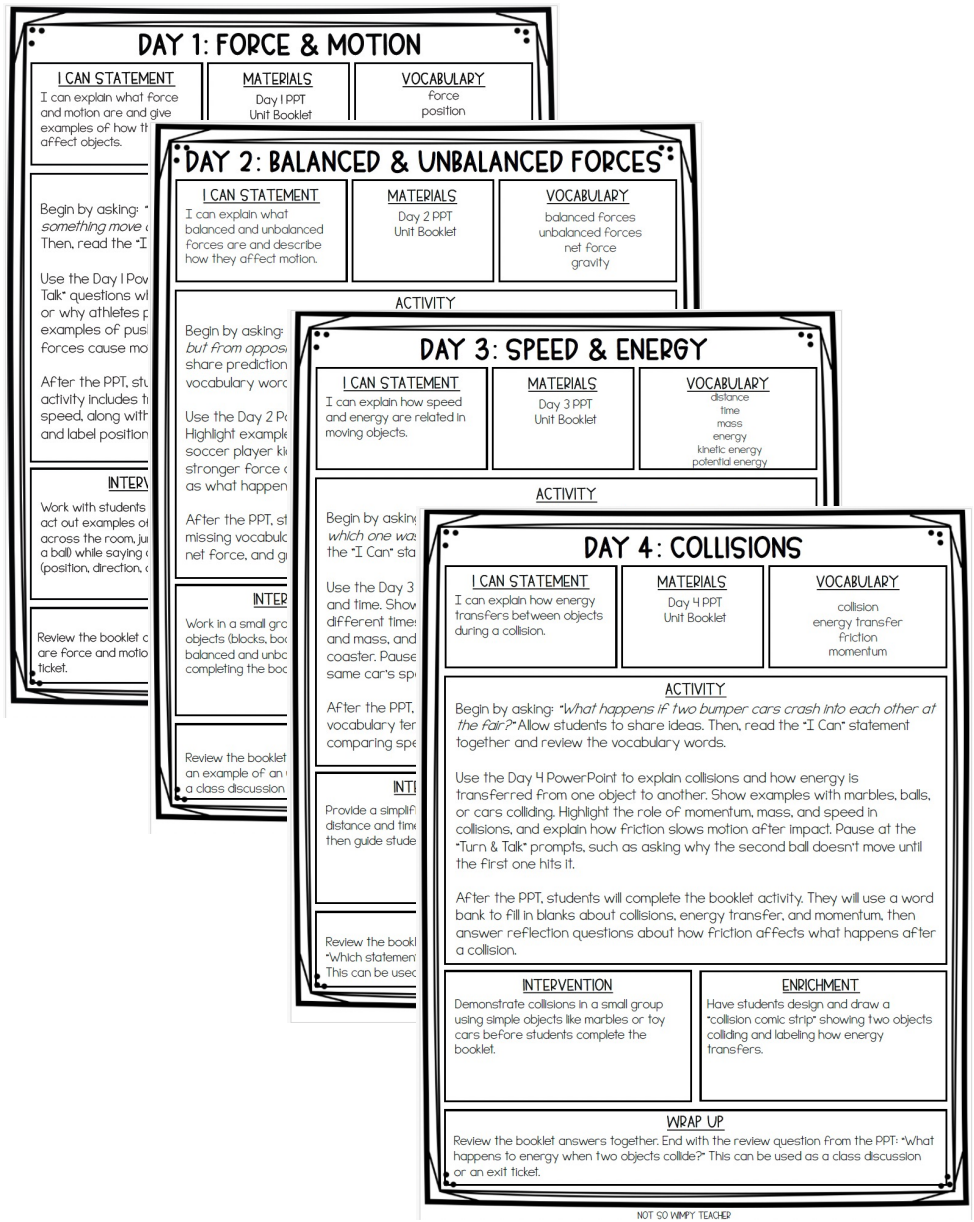
This unit includes four instructional PowerPoints that teach the concept.

Students will practice the skill using guided booklets, hands-on activities, force & motion stations, and task cards.

Vocabulary cards for student reference.

STEM marble predictable path activity.

Included unit assessment.



PowerPoint Lessons

GRAVITY

Vocabulary:

Gravity: a force that pulls objects toward each other (on Earth toward the

FORCES

I CAN...

explain what balanced and unbalanced forces ar and describe how the affect motion.

COLLISIONS

Why do you think that the second ball doesn't move until he hits it?

D TALK!

SPEED & ENERGY

SPEED CALCULATIONS

Speed = Distance ÷ Time

Example: A car drives 120 miles in 3 hours.

Speed = 120 miles ÷ 3 hours

COLLISIONS

COLLISION EXAMPLES

ble bumping into each other

aseball
ng a bat

GRAVITY

CURIOSITY SPARK





3 SPEED & ENERG

Directions: Match the word to the correct definition.

1. Speed ____
2. Distance ____
3. Kinetic Energy ____
4. Potential Energy ____
5. Mass ____

A. How heavy an object is
B. Energy of motion
C. How far something trave
D. How fast something mov
E. Stored energy

Directions: Choose the best answer for each situation.

6. Two runners are racing. Both finish at the same time, but Runner A ran 200 meters and Runner B r 50 meters. Who was faster?

7 STEM CHALLENGE

Directions: Answer the questions after the STEM activity.

1. What predictable pattern did yo

2. Why is it important to test your once?

hat did you change in you

2 FORCES

Directions: Fill in the word for each definition.

1. _____ forces are equal and cause no change in motion.
2. _____ forces are not equal and cause an object to start, stop, or change direction.
3. _____ is the overall force acting on an object after all forces are combined.

Directions: Write T for true or F for false.

4. Balanced forces can act on an object at rest or in

5 GRAVITY

Directions: Circle the correct answer.

pull objects...
ys
Earth
rom Earth

a ball upward, gravity...
stop and fall back down
t higher into the sky
ffect on it

hows gravity keeping something in

pping at a red light
ning in circles
moving around

6 READING PASSAGE

ver the questions after reading the passage.

nces get smaller over time?
all is losing air.
Y is lost to friction and other forces.
all becomes lighter.
attern is random.

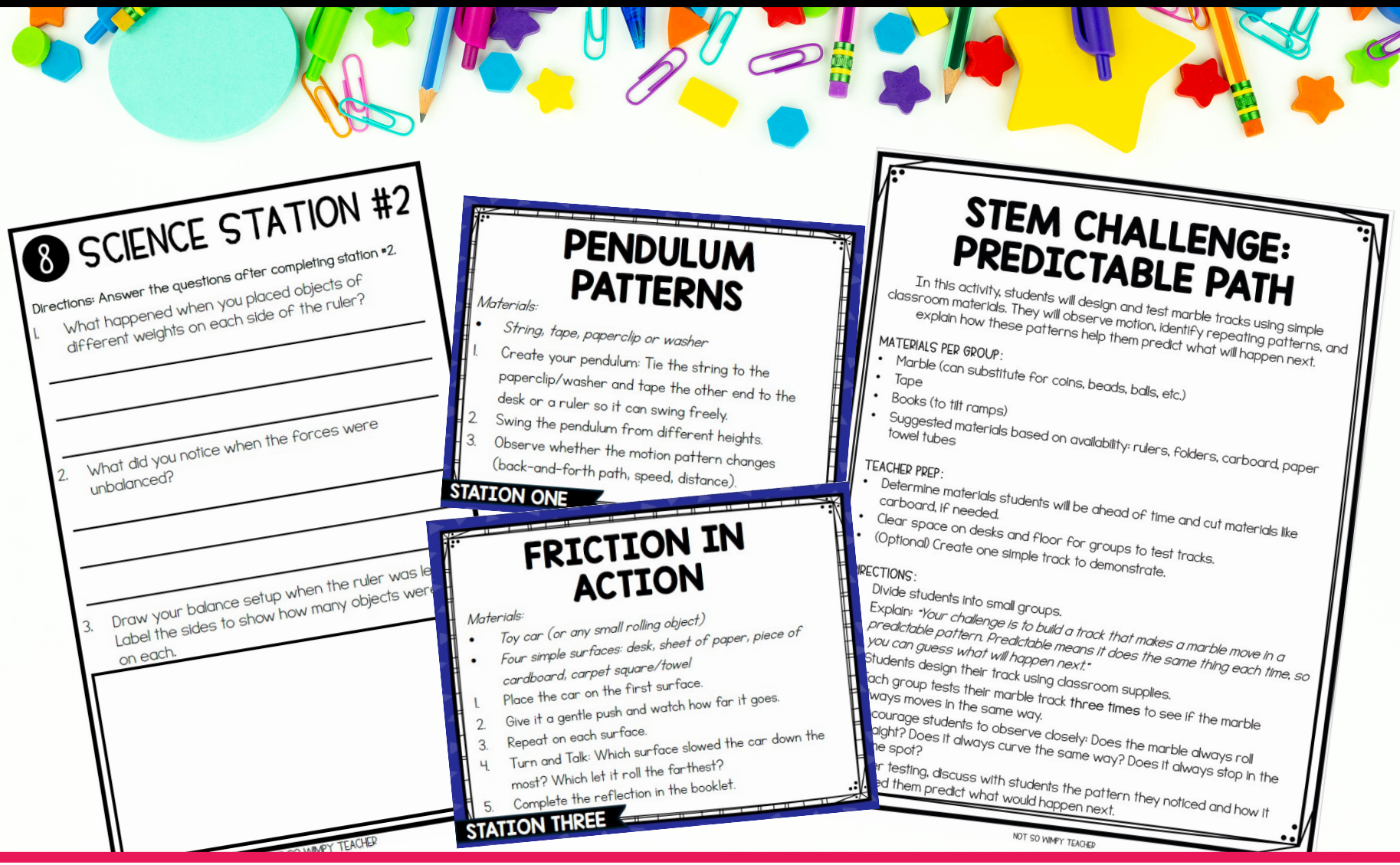
s Earth's rotation demonstrate?
npredictable pattern of motion
wing pattern caused by friction
rce that changes direction
peating pattern of day and night

se: Friction can change the height or length pattern.

se: Ocean waves

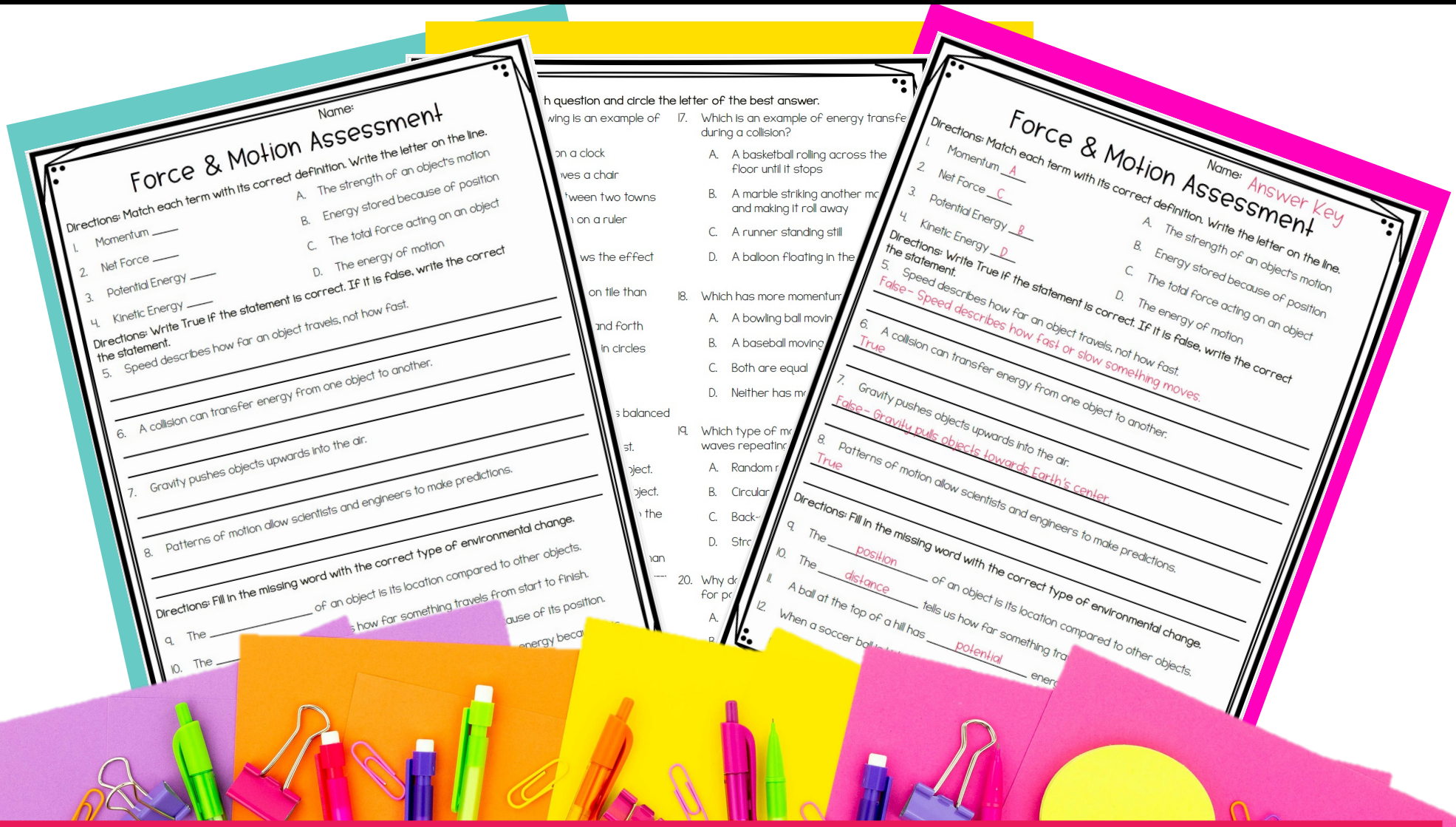
Each lesson is designed to be taught in 30 minutes, with all student work completed in their booklets. You can choose to take a daily grade, completion grade, or grade for accuracy.

STEM Activities



Students practice the skill with hands-on STEM activities exploring predictable paths, pendulums, balanced forces, and friction.

Assessment



A standards-aligned unit assessment is provided to evaluate students' understanding.