

SCIENCE: gravity

1ST & 2ND GRADE

trial 3

Interpret Data

The flat

The way of paper

Drawing Conclusion

My hypothesis was

Reflections: How do objects fall? Circle

Exploring Air Resistance


Objective: to understand the area of objects can affect the rate they fall

Materials: piece of paper

Procedure:

1. Get two pieces of paper
2. Leave one as is but crumple the other into a ball
3. Record your observations about papers. Complete your hypothesis.
4. Hold both papers at the same height. Drop them at the same time.
5. Repeat procedure 3 times.
6. Record your results.

Observe:

	Flat Paper	Crumpled Paper
	wider and longer than the paper ball	round and less area.

Hypothesis: What do you think will happen?

I think that the _____ paper will fall the _____ fastest. I think the _____ paper will fall the slowest.

I think these things because:

By: _____

Date: _____

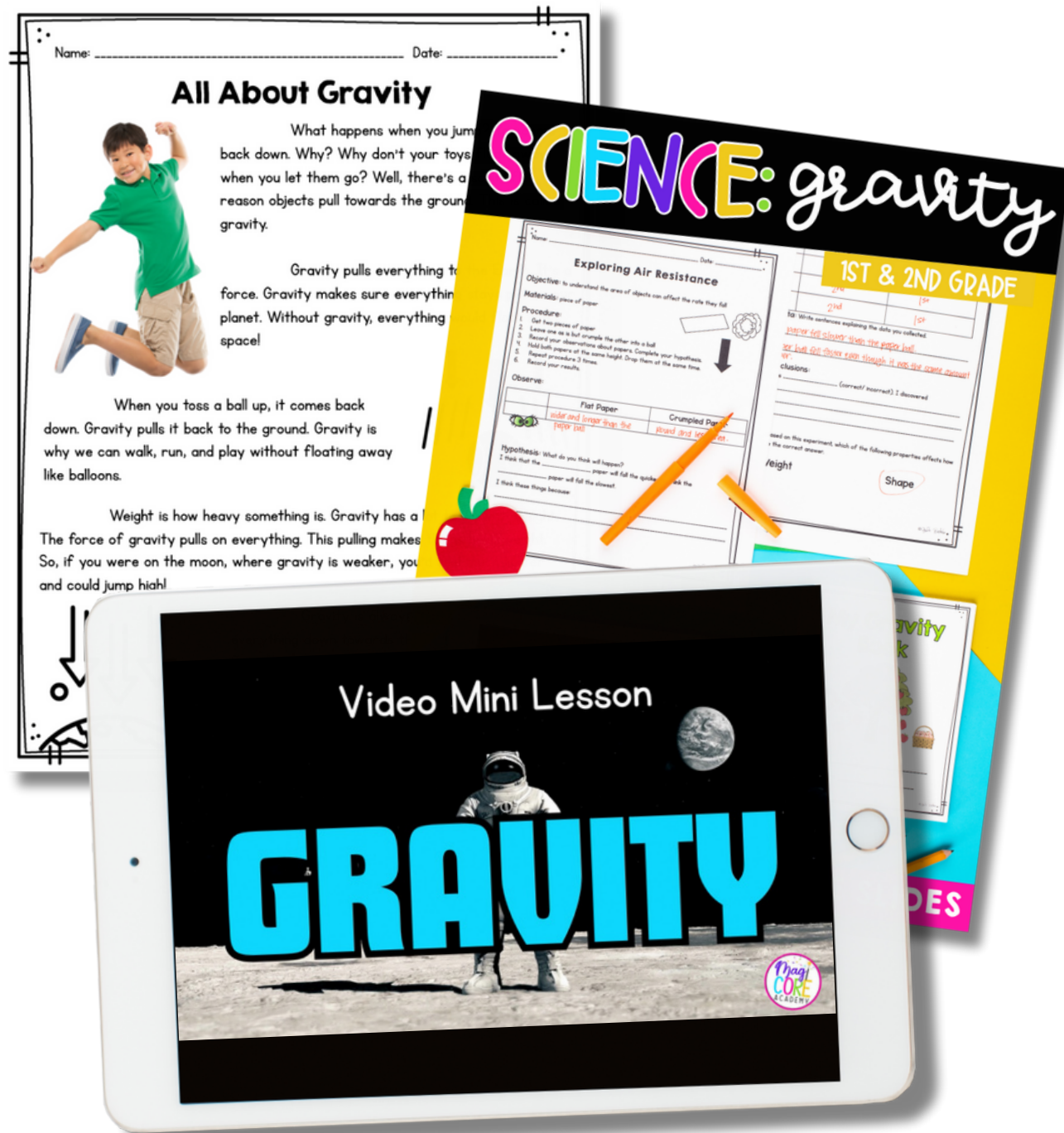


PRINTABLE & GOOGLE SLIDES



WHAT'S INSIDE?

PRINTABLE PDFs and
DIGITAL Google Slides unit to
teach all about gravity.



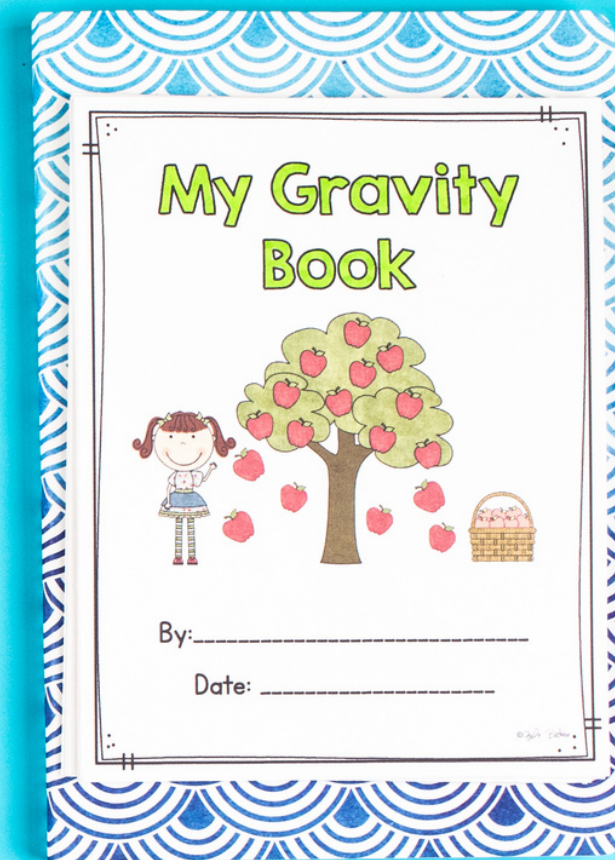
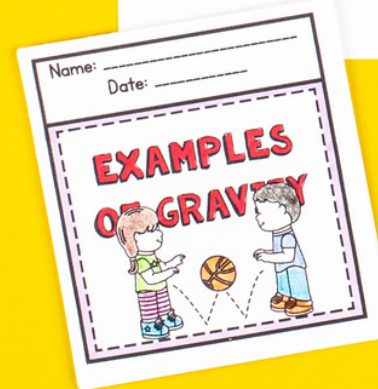
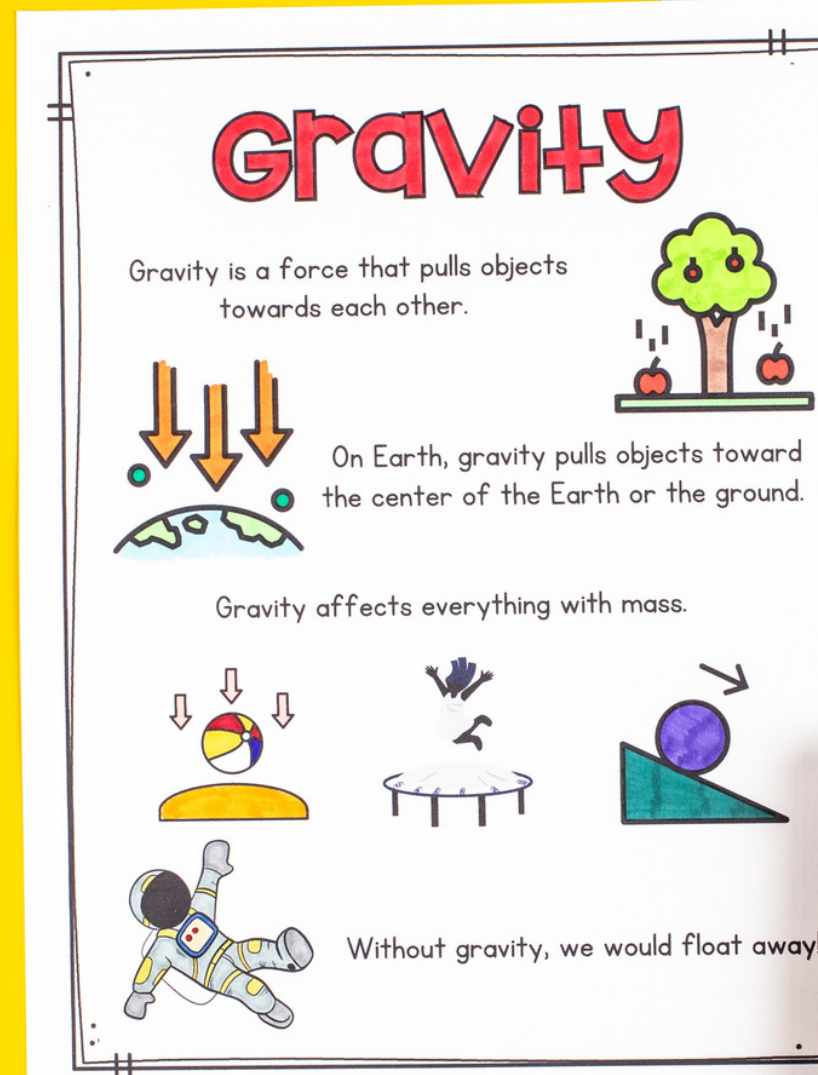
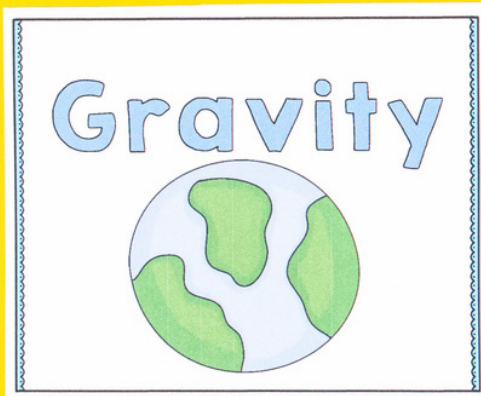
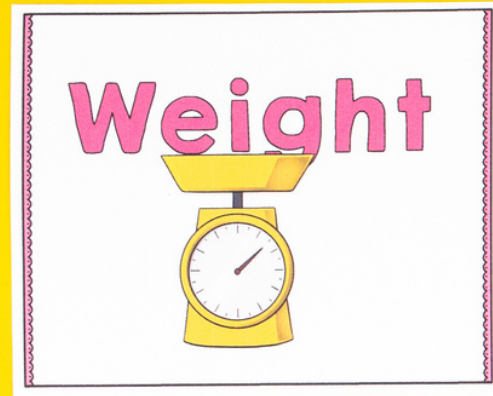
- Custom Video Lesson
- Reading Passage & Questions
- Mini Book & Vocabulary
- Worksheet
- Experiments & Explorations
- Quiz

Printable and Google
Slides Included



VIDEO & BRAINSTORMING

- Original video to introduce the topic.
- Prior knowledge and video graphic organizers.



WORKSHEETS

Name: _____ Date: _____

Exploring Air Resistance


Objective: to understand the area of objects can affect the rate they fall

Materials: piece of paper

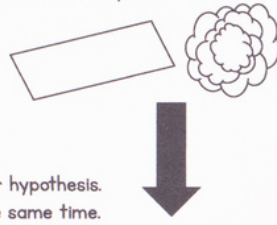
Procedure:

1. Get two pieces of paper
2. Leave one as is but crumple the other into a ball
3. Record your observations about papers. Complete your hypothesis.
4. Hold both papers at the same height. Drop them at the same time.
5. Repeat procedure 3 times.
6. Record your results.

Observe:

	Flat Paper	Crumpled Paper
	wider and longer than the paper ball	round and less area

Hypothesis: What do you think will happen?
I think that the _____ paper will fall the quickest. I think the _____ paper will fall the slowest.
I think these things because:



Name: _____ Date: _____

Collect Data: Complete the chart. Put a 1st for the paper that fell first, 2nd for the paper that fell second, or same if the bags fell at the same time.

	Flat Paper	Crumpled Paper Ball
Trial 1	2 nd	1 st
Trial 2	2 nd	1 st
Trial 3	2 nd	1 st

Interpret Data: Write sentences explaining the data you collected.

The flat paper fell slower than the paper ball.

The paper ball fell faster even though it was the same amount of paper.

Drawing Conclusions:
My hypothesis was _____ (correct/ incorrect). I discovered

Reflections: Based on this experiment, which of the following properties affects how objects fall? Circle the correct answer.

Weight Shape

- Active engagement.

PASSAGES & QUESTIONS

- Passage & Question Set.
- Same content as custom video.
- Reinforces concepts and vocabulary.

Name: _____ Date: _____

Show What You Know

Directions: Complete the following questions for the video you just watched.

What was the main

List as many facts a

Which fact above do

Was there any part

Is there any part of

Name: _____ Date: _____

Show What You Know

Directions: Complete the following prompts for the video you just watched.

List 3 things you learned from watching the video:

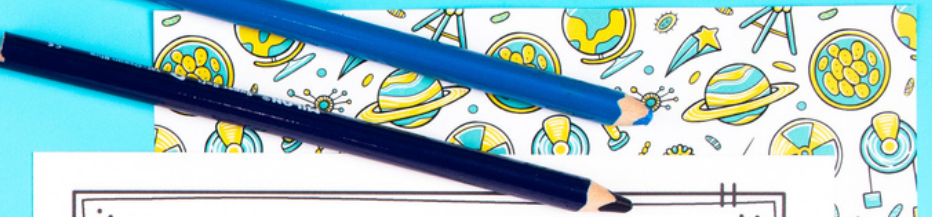
- 1.
- 2.
- 3.

Ask 2 questions you still have about the things you learned:

- 1.
- 2.

Say one thing you like most / found most interesting in the video:

- 1.



Name: _____ Date: _____

All About Gravity

What happens when you jump? You come back down. Why? Why don't your toys float away when you let them go? Well, there's a scientific reason objects pull towards the ground. This is called gravity.

Gravity pulls everything to the Earth. It's a force that makes sure everything stays put on our planet. Without gravity, everything would float into space.



Gravity has a lot to do with weight. If gravity is weaker, you'd feel much lighter.

Gravity is always at work, pulling everything towards the center of the Earth. Try dropping your favorite toy, and you'll see because gravity is at work. It's a force that keeps our world the way we know it.



MINI BOOK

- Vocabulary Cards
- Fill-in-the-blank mini book to hold students accountable to content and concepts.



PRACTICE PAGES

- Video & Question Pages
- Mini Book
- Flip Book
- Anchor Chart
- Gravity Comic Strip

Name: _____ Date: _____

Collect Data: Complete the chart. Put a 1st for the paper that fell first, 2nd for the paper that fell second, or same if the bags fell at the same time.

	Flat Paper	Crumpled Paper Ball
trial 1		
trial 2		
trial 3		

Interpret Data

The flat
The bag of paper
Drawing Conclusion
My hypothesis was _____

Reflections: Did objects fall? Circle _____

Exploring Air Resistance

Name: _____ Date: _____


Objective: to understand the area of objects can affect the rate they fall

Materials: piece of paper

Procedure:


1. Get two pieces of paper
2. Leave one as is but crumple the other into a ball
3. Record your observations about papers. Complete your hypothesis.
4. Hold both papers at the same height. Drop them at the same time.
5. Repeat procedure 3 times.
6. Record your results.

Observe:

	Flat Paper	Crumpled Paper
	<i>wider and longer than the paper ball</i>	<i>round and less area.</i>

Hypothesis: What do you think will happen?
I think that the _____ paper will fall the _____ fastest. I think the _____ paper will fall the slowest.
I think these things because: _____

My Gravity Book



By: _____

Date: _____



EXPERIMENTS

- 3 Experiments that follow the Scientific Method.
- Allow students to collaborate and explore!



Worksheet titled "Dropping Objects" with a decorative border featuring planets and rockets. It includes a student information line, an objective, materials, a five-step procedure, an observation table, and a hypothesis section. The table has columns for "Marble Bag with 5 marbles" and "Marble Bag with 10 marbles". The observation table includes rows for "See" (with an eye icon) and "Weight" (with a scale icon). The hypothesis section asks for predictions about which bag will fall faster or slower.

Name: _____ Date: _____

Dropping Objects



Objective: to understand the rate that heavy and light objects fall

Materials: plastic bags, 15 marbles

Procedure:

1. Put 5 marbles in one bag and 10 marbles in another.
2. Record your observations about the marbles. Complete your hypothesis.
3. Hold both bags at the same height. Drop them at the same time.
4. Repeat procedure 3 times.
5. Record your results.

Observe:

	Marble Bag with 5 marbles	Marble Bag with 10 marbles
See 	silver Round 5 marbles	silver round 10 marbles
Weight 		

Hypothesis: What do you think will happen?

I think that the _____ bag of marbles will fall the quickest. I think the _____ bag of marbles will fall the slowest.

Worksheet titled "Dropping Objects" with a student information line, a data collection table, an interpretation section, a conclusion section, and a reflection section. The data table has columns for "Marble Bag with 5 marbles" and "Marble Bag with 10 marbles" and rows for "trial 1", "trial 2", and "trial 3". The interpretation section asks for explanations of the data. The conclusion section asks for a hypothesis and a discovery. The reflection section asks for questions and answers.

Name: _____ Date: _____

Collect Data: Complete the chart. Put a 1st for the bag that fell first, 2nd for the bag that fell second, or same if the bags fell at the same time.

	Marble Bag with 5 marbles	Marble Bag with 10 marbles
trial 1	same	same
trial 2	same	same
trial 3	same	same

Interpret Data: Write sentences explaining the data you collected.

Both bags of marbles hit the ground at the same time.

The heavier bag of marbles fell the same speed as the light bag.

Drawing Conclusions:

My hypothesis was _____ (correct / incorrect). I discovered _____

It does not matter what an object weighs. Gravity pulls objects to the ground at the same time.

Reflections: What questions do you have? What do you wonder?

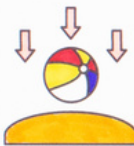
QUIZ

Gravity

Gravity is a force that pulls things towards each other.



Gravity affects everything.

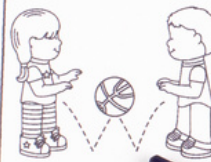


Gravity Quiz

Match the word with the definition.

- | | | |
|------------|-------|---|
| 1. force | _____ | a push or pull that makes something move |
| 2. gravity | _____ | how heavy something is |
| 3. weight | _____ | a force that pulls things towards the center of earth |

4. Why does the basketball hit the ground when it is bounced?



The basketball hits the ground because gravity is pulling it towards the ground.

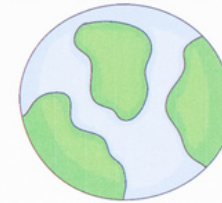
5. Give two examples of _____ you see in your classroom.

What would happen if _____ was no gravity on _____

Weight



Gravity



Force



Simple, quick quiz to ensure students understand basic concepts.



UPGRADE THEIR SKILLS!

SCIENCE Bundle

1st & 2nd Grade Print & Digital

Science: A Scientist's Job
Science: Science Tools
Science: Matter
Science: The Human Body
Science: Force and Motion
Science: Gravity
Science: Magnets
Science: Seasons
Science: Rocks & Minerals
Science: All About Soil
Science: Air and Wind
Science: SEVERE WEATHER
Science: The Sun's Energy
Science: Butterfly Lifecycle
Science: Plant Life Cycle
Science: Living Organisms

MagiCORE

Love this unit, but
need something
more?
TRY THE BUNDLE!

