

DIGITAL LESSON



BALANCED & UNBALANCED FORCES





WHAT ARE LIGHTNING LESSONS?

Short, engaging, fully digital lessons that:

- Introduce and Build Tier 3 Academic Vocabulary
- Introduce Key concepts with engaging videos or digital lessons
- Include a Practice Activity
- Include a short quiz or assessment

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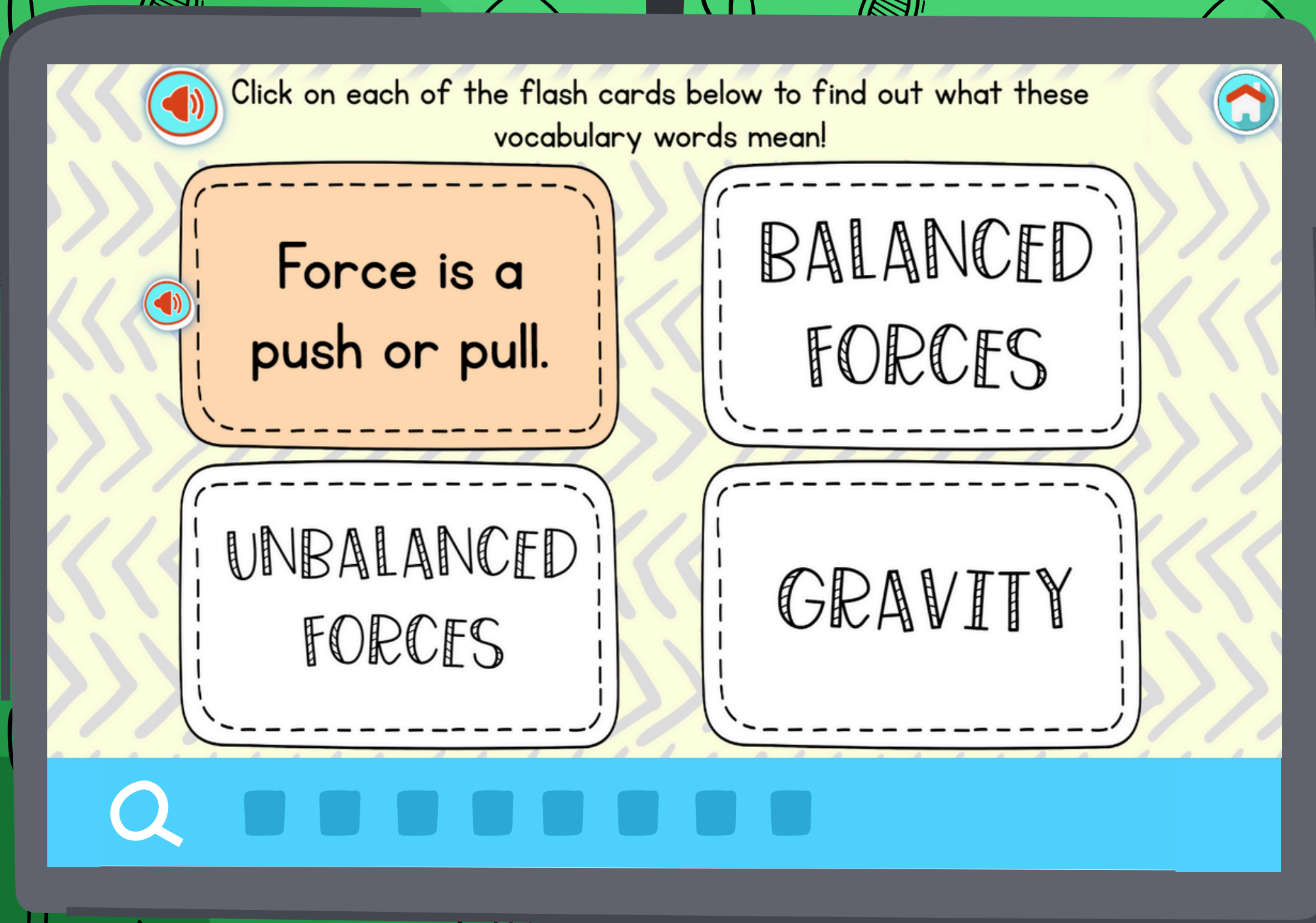


EASY TO NAVIGATE HUB

Perfect for whole class
instruction on a smart board
or projector.

★ or ★

Independent student work,
center, or intervention



INTERACTIVE VOCABULARY CARDS

- Introduce Tier 3, Academic Vocabulary
- Audio
- Interactivity



ORIGINAL VIDEO LESSON BY MAGICORE ACADEMY

Introduces concept and key
vocabulary



Sort the scenarios below by deciding whether they are balanced or unbalanced forces!



A car parked on a flat road: The car doesn't move because the forces acting on it (gravity, ground pushing up, frictional force, and the normal force) are in

Balanced

Unbalanced



A car accelerating: The force of the engine pushing the car forward is greater than the friction and air resistance pushing against it.

Balanced

Unbalanced



A ball hanging from a string: The pull of gravity on the ball is by the tension in the string pulling it up.

Balanced

Unbalanced



A person jumping: The force exerted by the person's legs to jump is greater than the force of gravity, allowing them to rise off the ground.

Balanced

Unbalanced



Two teams playing tug of war and making no progress: the rope is not moving because there is pulling force coming from each side.

Balanced

Unbalanced



A book falling off a table: Gravity pulls the book down with more force than the air pushes up against it, causing it to fall.

Balanced

Unbalanced

SUBMIT



INTERACTIVE ACTIVITY

Short activity to
practice concepts
learned in video lesson



SELF ASSESS

Immediate student or class feedback on activities and multiple choice questions.



INTERACTIVE READER

- Standards Based
- Lexile Leveled
- Nonfiction
- Application of Science Skill
- Interactive
- Quiz based on reader



Question 2

What happens when forces are balanced?

- ☐ The object moves faster.
- ☐ The object changes direction.
- ☐ Nothing, the object doesn't move.
- ☐ The object disappears.

SUBMIT



QUIZ

- Multiple choice and short response questions
- Encourages students to refer back to the video
- Multiple choice questions give immediate feedback to students

Balanced & Unbalanced Forces Answer Recording Sheet

Type your name here



- Activity 1a: The car hit the wall.
- Activity 1b: The wall pushes back against the car.
- Activity 2: Answered Correctly
- Activity 3: Scientists use crash test dummies to study unbalanced forces. They put sensors all over the dummies body to measure the forces they feel. Then, they mimic real car crashes in a lab so they can measure the forces a human would experience.
- Quiz 1: Force is a push or pull on an object.
- Quiz 2: Answered Correctly
- Quiz 3: When a car is moving down the highway.
- Quiz 4: Unbalanced forces happen when the forces are not equal.
- Quiz 5: The foot has more force than the ball and gravity.
- Quiz 6: The ball stops because the forces become balanced.
- Quiz 7: They can help us stay safe like the example with crash test dummies.



TEACHER REVIEW

Student responses are
reported at the end of the
lesson for students to print
or teachers to review.

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RESOURCE AND HUNDREDS OF OTHERS IN
OUR MEMBERSHIP?

you'll ❤️ magicore academy!

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resources for your entire class.

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- Self-correcting for immediate student feedback
- Lexile levels & audio read aloud options
- Engaging animation

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academy

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- Virtual Field Trips
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- Mini Lessons
- Games
- Magical Mysteries

...and more added daily!



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