

DIGITAL LESSON

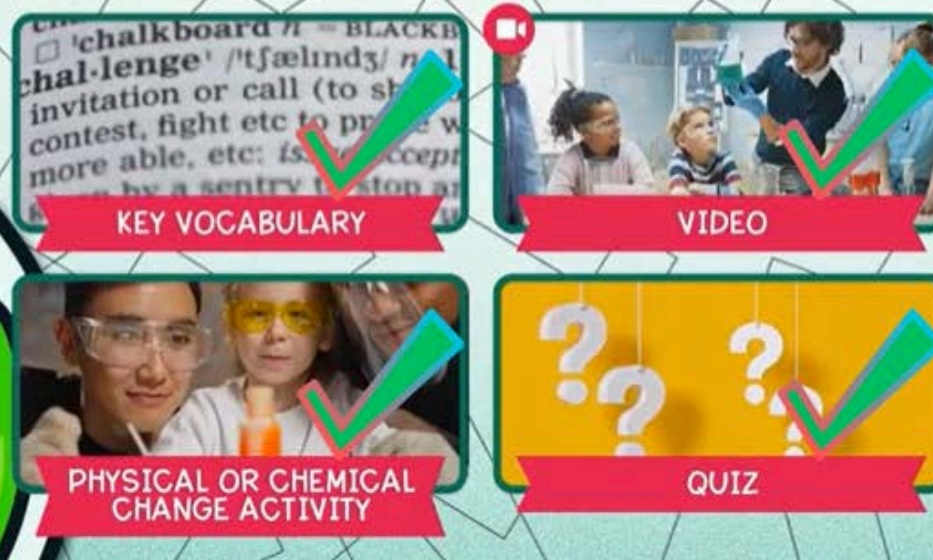
LIGHTNING
LESSON

CHEMICAL & PHYSICAL REACTIONS



DIGITAL LESSON

CHEMICAL & PHYSICAL REACTIONS



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

DIGITAL LESSON

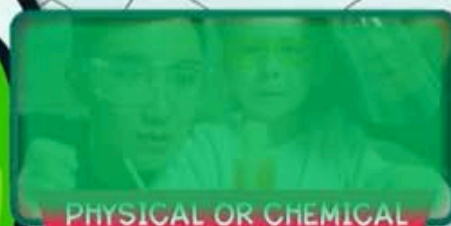
CHEMICAL & PHYSICAL REACTIONS

chalki-ness *n* [U].
□ 'chalkboard *n* = BLACK
chal-lenge' /'tʃælɪndʒ/ *n*
invitation or call (to sb) to
contest, fight etc to prove
more able. /ə'leɪs/

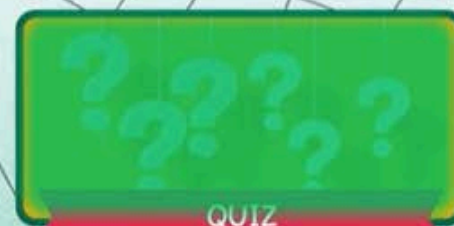
KEY VOCABULARY



VIDEO



PHYSICAL OR CHEMICAL
CHANGE ACTIVITY



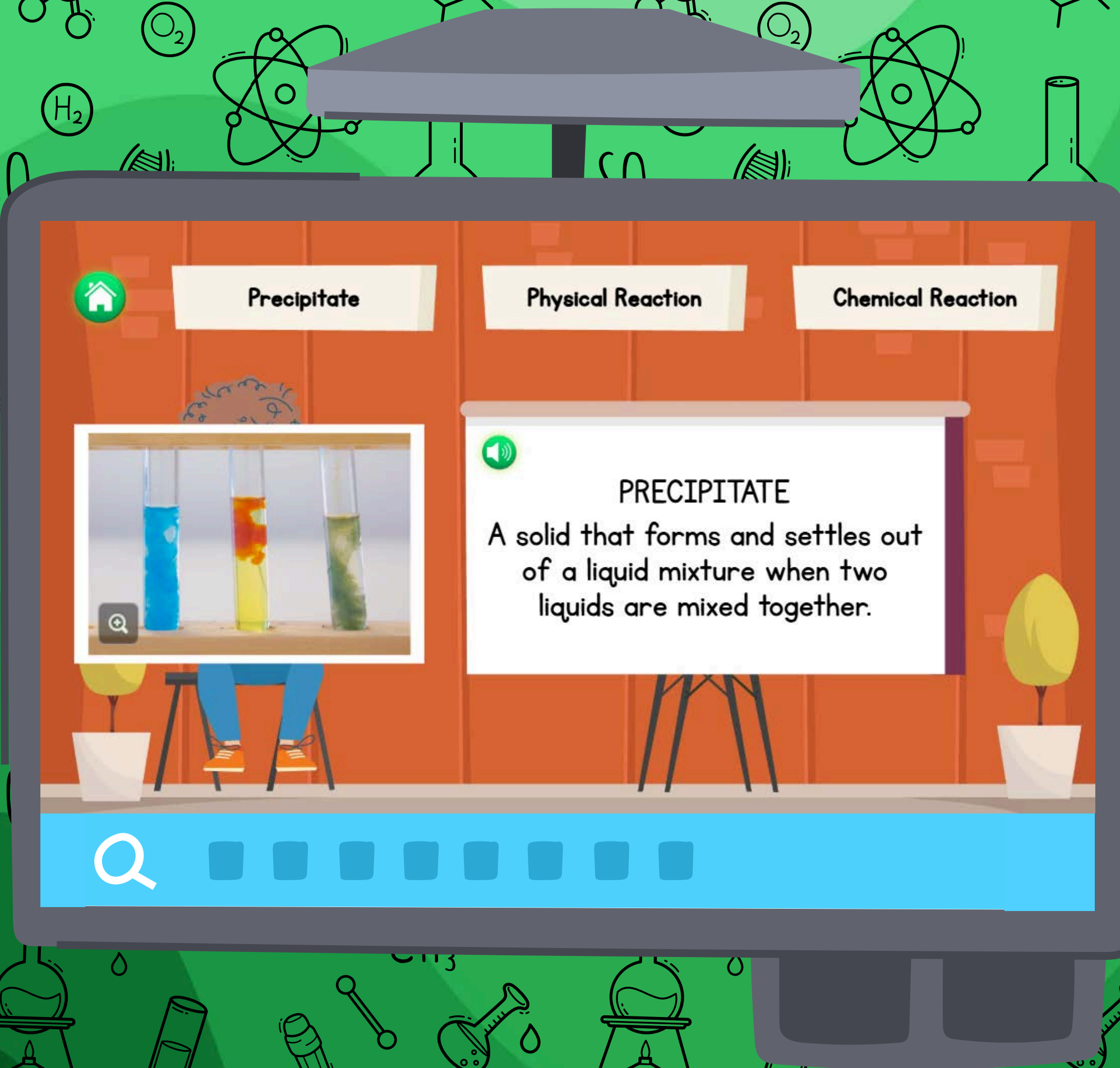
QUIZ

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



MIXING SUBSTANCES



ORIGINAL VIDEO LESSON BY MAGICORE ACADEMY

Introduces concept and key
vocabulary

CHEMICAL OR PHYSICAL REACTION

Watch the video. Determine if the video is a chemical or physical change. Explain how you know.



INTERACTIVE ACTIVITY

Short activity to
practice concepts
learned in video lesson

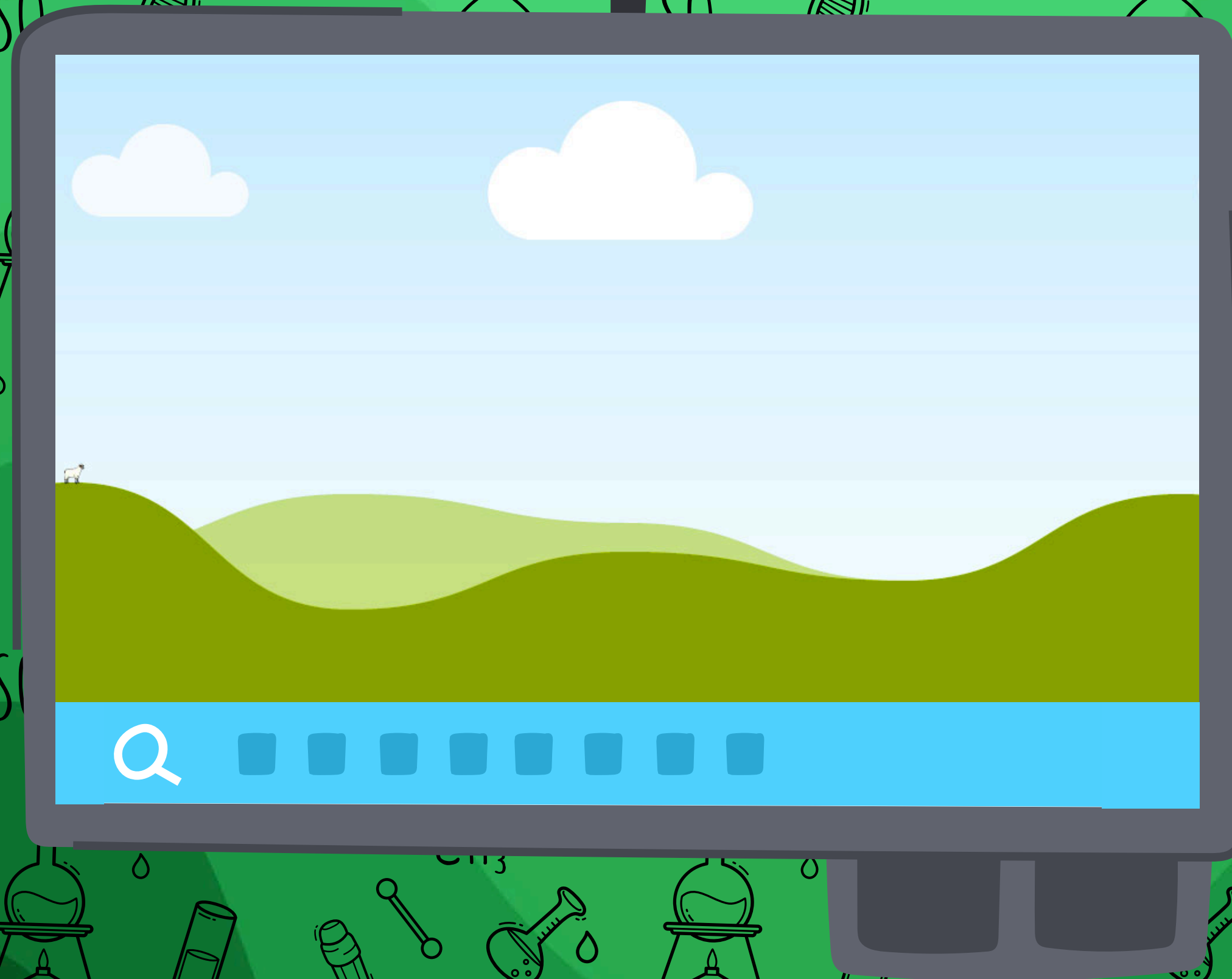
DIGITAL LESSON

CHEMICAL & PHYSICAL REACTIONS

GREAT JOB!
YOU MADE IT
TO THE END

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 1: What happens during a physical change?

- A Substances disappear completely.
- B Substances combine but keep their original properties.
- C A new substance with different properties forms.
- D The temperature always increases.

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.