

DIGITAL LESSON

LIGHTNING
LESSON

SCIENTIFIC METHOD



DIGITAL LESSON

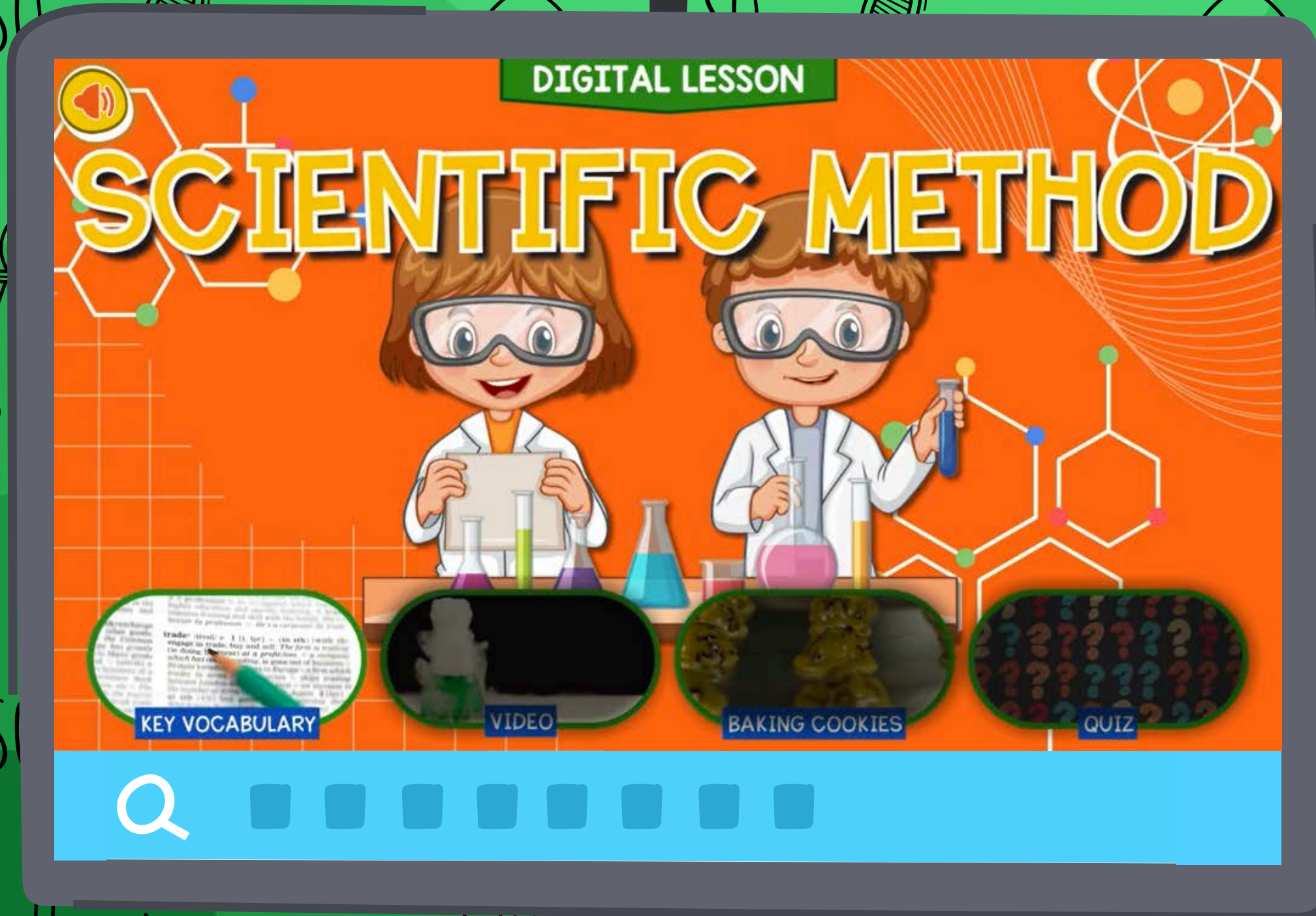
SCIENTIFIC METHOD



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



EASY TO NAVIGATE HUB

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

★ or ★

Independent student work,
center, or intervention



Click on the Key Vocabulary words to find out what they mean!

Scientific Method

The scientific method is a step-by-step way scientists explore questions, make guesses, do experiments, check results, and learn cool stuff about the world!

Hypothesis

Experiment

An experiment is a fun and careful test scientists do to see if their guess (hypothesis) is right or wrong.

Data

Discoveries

Discoveries are the awesome things scientists find out when they study their data and learn something new about how the world works!



INTERACTIVE VOCABULARY CARDS

- Introduce Tier 3, Academic Vocabulary
- Audio
- Interactivity

THE SCIENTIFIC METHOD



Video Mini Lesson



ORIGINAL VIDEO LESSON BY MAGICORE ACADEMY

Introduces concept and key
vocabulary



Match the Scientific Method step to the scenario by dragging and dropping the step into the open space!



Carlos takes action. He makes two batches of cookie dough. For one batch, he follows a recipe using only white sugar, and for the other, he substitutes half of the white sugar with brown sugar. He makes sure everything else remains the same, including the baking temperature and the amount of dough he places on the baking sheet for each cookie.

DROP HERE

Step 1:
Ask a Question

Step 2: Do Background
Research

Step 3: Construct a
Hypothesis

Step 4: Test Your
Hypothesis by Doing an
Experiment

Step 5: Analyze Your Data
and Draw a Conclusion

Step 6: Report Your
Results

SUBMIT

INTERACTIVE ACTIVITY

Short activity to
practice concepts
learned in video lesson

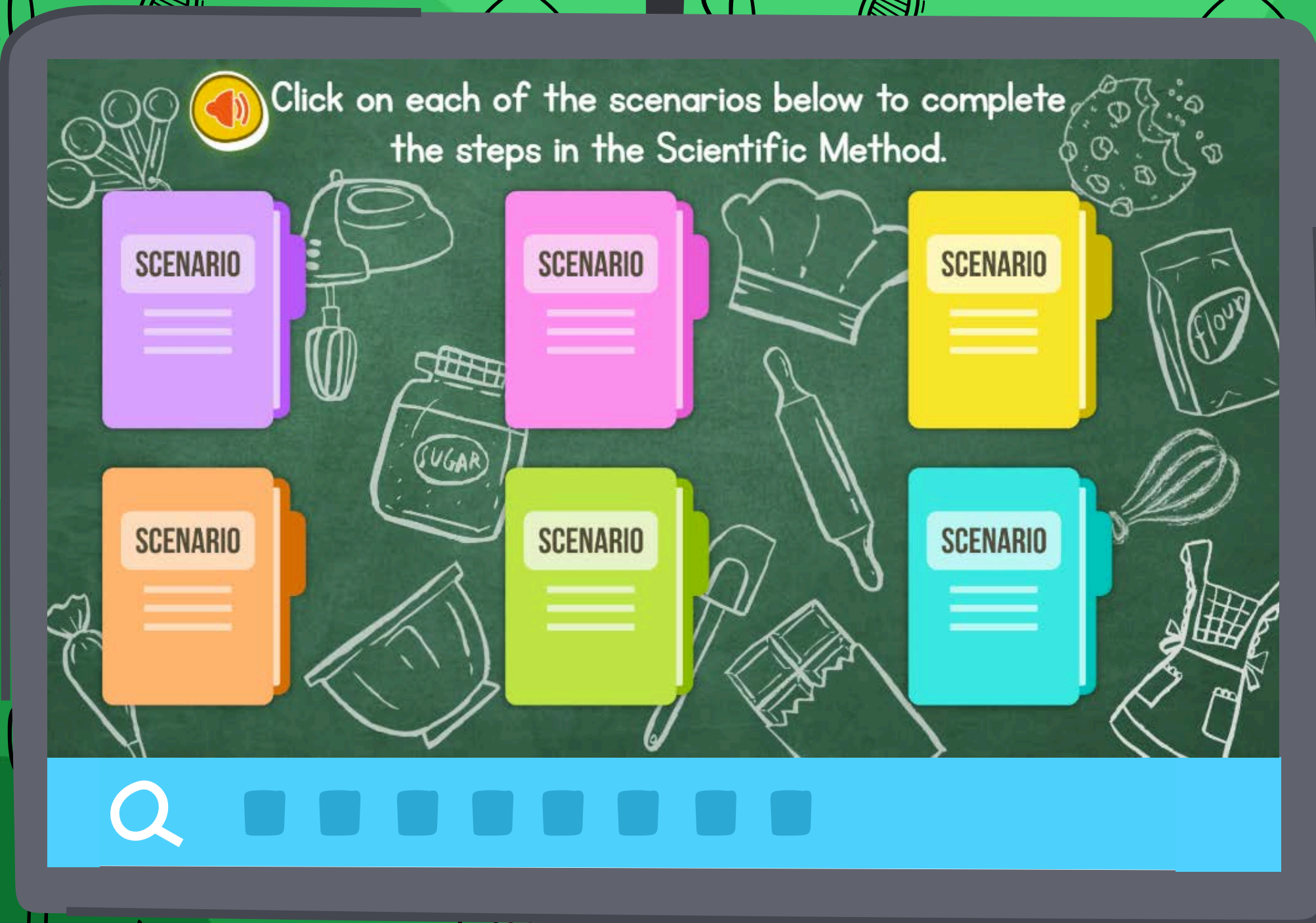


Well done!

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 2

Who contributed to the development of the scientific method?
(Choose all that apply.)

- ☐ Sir Isaac Newton
- ☐ Galileo Galilei
- ☐ Ibn al-Haytham
- ☐ Bill Nye the Science Guy

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.