

DIGITAL LESSON

LIGHTNING
LESSON

WEATHERING & EROSION



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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

WEATHERING & EROSION

chalky adj (-ier, -iest)
chalkiness n [U]
[C] 'chalkboard n = BLACK
chal-lenge' /'tʃælɪndʒ/ n
invitation or call (to sb) to
contest, fight etc to prove
more able, etc: issue/accept
given by a sentry to stop

KEY VOCABULARY

TYPES OF WEATHERING
& EROSION VIDEO

SHORELINE WEATHERING
& EROSION 300L READER

WEATHERING / EROSION
CAUSE & EFFECT

QUIZ

EASY TO NAVIGATE HUB

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

★ or ★

Independent student work,
center, or intervention

VOCABULARY

Physical Weathering is when rocks break down into smaller pieces without changing what they're made of, like when ice cracks a rock apart.

BIOLOGICAL WEATHERING

CHEMICAL WEATHERING

Erosion is when water, wind, or ice move bits of rock or soil from one place to another.

CONTINUE

INTERACTIVE VOCABULARY CARDS

- Introduce Tier 3, Academic Vocabulary
- Audio
- Interactivity

TYPES OF WEATHERING & EROSION



ORIGINAL VIDEO LESSON BY MAGICORE ACADEMY

Introduces concept and key
vocabulary

WEATHERING / EROSION CAUSE & EFFECT

PLANT
ROOTS

ACID
RAIN

RIVER
FLOW

WIND

OCEAN
WAVES

GLACIAL
MOVEMENT

HUMAN
ACTIVITY

WIND
(Erosion)

CAUSE

EFFECT



Click on the activities to find the causes and effects.



INTERACTIVE ACTIVITY

Short activity to
practice concepts
learned in video lesson

AWESOME!
YOU MADE IT
TO THE END!



CONTINUE



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: Use the chart to explain
the 3 types of weathering.

Physical Weathering

type your answer here

type your answer here

Weathering caused by living things like
plant roots, moss, animals and humans.

Chemical Weathering

type your answer here

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.