Grade 2 | SCIENCE

WEEK 11 • PRACTICE WORKBOOK • DAYS 51–55

Read the matching lesson in the Week 11 Student Textbook first. Write each answer on the line below its question. Day 55 is answered on your own.

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Day 51: Earth's Surface Changes

Changes to the land

Change	What causes it
A rock cracks into pieces	Water freezes in a crack and pushes the rock apart
Soil washes off a hill	Heavy rain
Sand piles up into a hill	Wind blows the sand
A riverbank wears away	Moving river water

1. What causes soil to wash off a hill?

   Answer:

2. Which change in the table is weathering, not erosion?

   Answer:

3. Choose one change from the table. Explain whether it moves rock or soil to a new place, and what that tells you about the change.

   Answer:

Day 52: Slow Changes

Riverbank measurements

Year	Distance from the fence to the riverbank
Year 1	20 feet
Year 2	19 feet
Year 3	18 feet
Year 4	17 feet

1. How many feet did the riverbank wear away from Year 1 to Year 4?

   Answer:

2. How many feet did it wear away each year?

   Answer:

3. Explain how the table gives evidence that the riverbank is changing slowly.

   Answer:

Day 53: Fast Changes

How long each event takes

Event	How long it takes
Earthquake	Seconds to minutes
Landslide	Minutes
Flood	Hours to days
River carving a canyon	Millions of years

1. Which event in the table happens in seconds to minutes?

   Answer:

2. Which event takes the longest?

   Answer:

3. Use the table and the Mount St. Helens report to explain why a volcano eruption is a fast change.

   Answer:

Day 54: Model Slow and Fast Changes

Sample results

Hill	Height before	Height after	What we saw
A, slow	6 inches	5 inches	Small grooves
B, fast	6 inches	3 inches	Deep groove, sand spread out

1. How many inches shorter did Hill B become?

   Answer:

2. Which hill changed more?

   Answer:

3. Explain how this model is like the difference between a gentle rain and a flood.

   Answer:

Hands-on task: Model slow and fast water on sand hills

1. On a tray with sides, build two sand hills the same size from damp sand. Measure each hill's height with a ruler.
2. Hill A, slow: poke 3 small holes in the bottom of a paper cup. Hold the cup over Hill A and let 1 cup of water drip out slowly.
3. Hill B, fast: pour 1 cup of water onto Hill B all at once.
4. Measure each hill's height again. Look for grooves and for sand at the bottom of each hill.
5. Record your results in the table below.

Hill	Height before	Height after	What I saw
A, slow	____	____	
B, fast	____	____	

My evidence that fast water changes the land more:

Day 55: Independent Check: Slow and Fast Changes

Two changes

Change	Time it took
A landslide covers a road	About 10 minutes
A creek widens its banks by 4 feet	40 years

Answer on your own. An adult may read the questions aloud but should not give the answers.

1. Which change in the table is a fast change?

   Answer:

2. Wind blows sand from a beach into a dune. Is this weathering or erosion?

   Answer:

3. Is the creek change slow or fast? Explain using evidence from the table.

   Answer:

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