How Fast Did It Change?

Use reports to compare quick and slow Earth changes.

2-ESS1-1 "Use information from several sources to construct an explanation that Earth events like volcanic eruptions, earthquakes, weather, and erosion can occur quickly or slowly. (SEP: 6; DCI: ESS1.C; CCC: Stability/Change)"

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline the time clues in each report. Circle the Earth change each report describes, then use your marks to decide which changes were quick or slow.

Three Reports from Pine Bend

1. The school weather log in Pine Bend tells about one storm. Rain began at 8 o'clock Tuesday night. By 9 o'clock, water ran down the street. By morning, the rain had stopped. The log shows that the weather changed in hours.

2. Near the school, a creek runs past a dirt bank. A park worker took notes each spring. In the first year, a tree stood far from the creek. Three years later, water had worn away soil near its roots. The bank changed slowly.

3. An old town report tells about an earthquake in Pine Bend. At 2 o'clock, the ground shook. A wall cracked during the shaking, which lasted less than a minute. The report shows that an earthquake can change a place in a very short time.

2 ANSWER WITH EVIDENCE

Use the passage

1. Use the school log and the park worker's notes to explain which change was faster. Give a time clue from each.

2. Use the park worker's notes and the town report to explain which Earth event happened slowly. Give a time clue from each.

3. Which two sources show a quick change? Explain how the time clues in both sources show this.

3 YOUR TURN

Your own words

Make up two short reports from different people about one Earth event that changes a place. Include a time clue in each report, then explain whether the change was quick or slow using both reports.

ANSWER KEY

How Fast Did It Change?

GRADE 2 · 2-ESS1-1

PART 1 · READ AND MARK

Underline the time clues in each report. Circle the Earth change each report describes, then use your marks to decide which changes were quick or slow. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	Use the school log and the park worker's notes to explain which change was faster. Give a time clue from each.	**The storm changed the street faster. Water ran down it within an hour, but the creek wore away soil over three years.**
2	Use the park worker's notes and the town report to explain which Earth event happened slowly. Give a time clue from each.	**The creek wore away soil slowly, over three years. The earthquake cracked a wall in less than a minute.**
3	Which two sources show a quick change? Explain how the time clues in both sources show this.	**The school log and town report show quick changes. Water ran down the street within an hour, and a wall cracked in less than a minute.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

A hiker saw no ash on the trail at noon. A ranger saw ash from an erupting volcano on the trail at 1 o'clock. The trail changed quickly because both reports show that the ash arrived within one hour.

Accept answers that compare time clues from the named sources. For Your Turn, look for two distinct reports about one Earth event and an explanation supported by both.