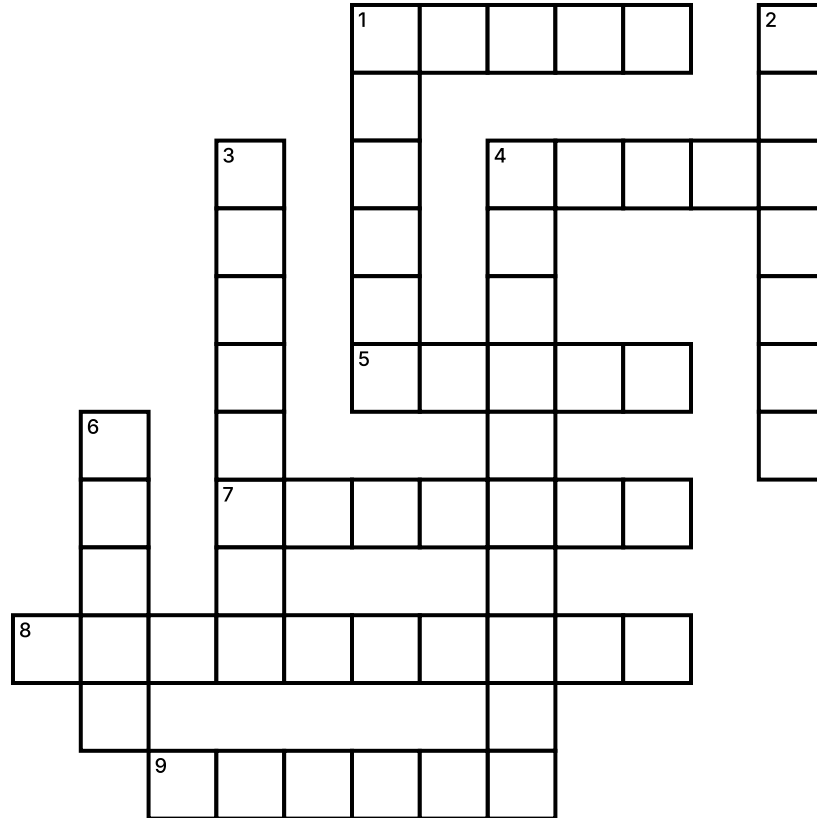




Water Changes the Land

Use the clues to fill in the crossword puzzle.

Name _____ Date _____



Across

- 1 Plant parts that hold soil in place (5)
- 4 Fan-shaped land that forms where a river meets the sea (5)
- 5 Water overflowing onto land that is usually dry (5)
- 7 Moving soil and rock from one place to another (7)
- 8 Breaking rock into smaller pieces (10)
- 9 A deep valley carved by a river over a long time (6)

Down

- 1 Rainwater that flows over the ground instead of soaking in (6)
- 2 A huge, slow-moving mass of ice (7)
- 3 Bits of sand, soil, and rock carried by water (8)
- 4 Dropping sediment in a new place (10)
- 6 A raised bank built along a river to hold back floods (5)

Word bank canyon delta deposition erosion flood glacier levee roots
runoff sediment weathering



Stream Table Investigation

Test how the slope of the land changes how far water carries sediment.

Name _____ Date _____

Materials

tray or pan, sand or soil, paper cup with a small hole, water, books, ruler

Steps

1. Spread sand in the top half of the tray.
2. Put 1 book under the sand end.
3. Pour 1 cup of water through the cup at the top.
4. Measure how far the sand moved.
5. Smooth the sand. Repeat with 2 and 3 books.

My prediction: What will happen when the slope is steeper?

Trial	Slope	How far did sediment travel? (cm)	What did you see?
1	1 book		
2	2 books		
3	3 books		

Sketch after trial 1

Sketch after trial 3

When the slope was steeper, the water

because



Grade 4

Local Water Challenge Solution

Grade 4

Choose a water problem near your school. Plan, build, and test a solution.

Name _____ Date _____

Our problem ☐ flooding on a street ☐ an eroding creek bank ☐ muddy runoff ☐
other: _____

Criteria: our solution must

Constraints: our limits are

Draw and label your solution.

Test	What happened?	What will we change?
1		
2		

Our recommendation for the Water Division



For teachers

Grade 4 Answer Key

Accept reasonable answers that are supported by evidence.

Water Changes the Land

