

Creek Changes

Trace how people change places, notice results, and find ways to protect them.

3.3b "People make adaptations and modifications to the environment. Advancements in science, technology, and industry can bring about modifications to the environment and can have unintended consequences on the environment..."

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline three changes people made to the creek area. Circle one sentence describing an unintended result. Number the two protection actions 1 and 2.

Clear Creek and Brookdale

- ① Long ago, people in Brookdale carried water from Clear Creek. As the town grew, families needed safe water at home. The town built a water-treatment plant beside the creek. It also buried pipes under streets to carry cleaned water to homes. These changes helped people meet a daily need, but they changed the creek area and the ground under the town.
- ② Later, a paper factory opened near Clear Creek. New machines helped workers make paper faster. To load trucks, the factory paved a loading lot near the creek. Rain washed oil and trash from the lot into the water. This was not the factory's goal, but it made the water dirtier for fish and people downstream.
- ③ To protect Clear Creek, people took two actions. First, town leaders made a rule that the factory must collect and clean dirty rainwater from its lot before it enters the creek. Second, volunteers planted grasses along the creek bank. The grasses hold soil in place, so less mud washes into the water. These actions help keep the creek healthier for everyone.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 What structure did Brookdale build beside the creek to help families get safe water at home?

2 How did new machines change the factory's work, and what did the factory pave to load trucks?

3 What unintended consequence happened when rain fell on the paved loading lot?

4 What were the two actions people took to protect Clear Creek?

3 YOUR TURN _____ Your own words

Choose a place near your school or home. Write three sentences: name one change people could make there, explain one unintended consequence, and tell one action people could take to protect the place.

PART 1 • READ AND MARK

Underline three changes people made to the creek area. Circle one sentence describing an unintended result. Number the two protection actions 1 and 2. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What structure did Brookdale build beside the creek to help families get safe water at home?	Brookdale built a water-treatment plant beside the creek.
2	How did new machines change the factory's work, and what did the factory pave to load trucks?	The machines helped workers make paper faster. The factory paved a loading lot near the creek.
3	What unintended consequence happened when rain fell on the paved loading lot?	Rain washed oil and trash from the lot into the creek, making the water dirtier.
4	What were the two actions people took to protect Clear Creek?	Town leaders required the factory to collect and clean dirty rainwater from its lot, and volunteers planted grasses along the creek bank.

PART 3 • YOUR TURN (SAMPLE ANSWER)

People could pave a walking path across the grassy schoolyard. Rain might run off the path faster and carry soil into a nearby drain. They could plant bushes beside the path to hold the soil.

Accept reasonable local examples that include all three parts: a human-made change, a possible unintended environmental result, and a protection action. The consequence and protection action should logically connect to the change.