

Choices for Earth

Read how resource decisions affect people and environments.

6.11 "Earth and space. The student understands how resources are managed. The student is expected to: research and describe why resource management is important in reducing global energy poverty, malnutrition, and air and water pollution..."

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline each complete sentence that begins with these words: *Managing, A town, For example, When farms, Solar panels, and Better storage*. These six sentences describe actions people can use to manage resources.

Managing Resources Wisely

- ① Resource management means making choices about how people use and protect materials from Earth. These choices matter because energy, clean water, fertile soil, and clean air support health. In many places, energy poverty occurs when families cannot get reliable, affordable energy for lights, cooking, heating, or cooling. Burning wood, coal, or trash indoors can release harmful smoke. Managing energy resources can expand access to safer power while lowering pollution that can harm lungs, crops, and water.
- ② Conservation means using less or preventing waste. A town can repair leaking pipes, collect rainwater for gardens, and protect stream banks with plants. These actions conserve water and help keep soil from washing into streams. Efficiency means getting the same service with less resource use. For example, efficient stoves can use less fuel and produce less smoke than older stoves. When farms use water-saving irrigation and add compost carefully, they can protect water, build healthier soil, and grow more food.
- ③ Technology can help people manage resources when it fits local needs. Solar panels can turn sunlight into electricity without smoke during use, and sensors can show farmers when soil needs water. Better storage, cooling, and transport can keep harvested food from spoiling. This can help reduce undernutrition, a form of malnutrition in which people do not get enough energy or needed nutrients. Resource management also needs fair planning, because equipment, land, water, and energy must reach communities that need them. No single action solves every problem.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 Describe how managing energy resources can increase safer energy access and reduce pollution. Use two details from the passage.

2 Why do repairing leaking pipes and protecting stream banks with plants count as conservation? Explain how they protect water and soil.

3 How is efficiency different from conservation? Give one example of each from the passage.

4 How can food storage technology help reduce undernutrition, and why does fair planning matter?

3 YOUR TURN _____ Your own words

Choose one community resource problem involving air, water, soil, or energy. Write four sentences that name the problem, propose a conservation, efficiency, or technology action, and explain how the action reduces energy poverty, undernutrition, air pollution, or water pollution.

PART 1 • READ AND MARK

Underline each complete sentence that begins with these words: *Managing*, *A town*, *For example*, *When farms*, *Solar panels*, and *Better storage*. These six sentences describe actions people can use to manage resources. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	Describe how managing energy resources can increase safer energy access and reduce pollution. Use two details from the passage.	It can expand access to safer power for families and lower pollution. Efficient stoves use less fuel and produce less smoke, while cleaner energy sources can avoid smoke during use.
2	Why do repairing leaking pipes and protecting stream banks with plants count as conservation? Explain how they protect water and soil.	They prevent waste and protect resources. Repairing pipes saves water, and plants on stream banks help keep soil from washing into streams.
3	How is efficiency different from conservation? Give one example of each from the passage.	Conservation uses less or prevents waste, such as repairing leaking pipes. Efficiency provides the same service with less resource use, such as an efficient stove using less fuel.
4	How can food storage technology help reduce undernutrition, and why does fair planning matter?	Storage, cooling, and transport keep food from spoiling, so more food can be available to people who need energy and nutrients. Fair planning helps equipment and resources reach communities that need them.

PART 3 • YOUR TURN (SAMPLE ANSWER)

Many families in a village cook with smoky wood fires. The village could install efficient electric stoves connected to a community solar system with batteries. This technology gives families a cleaner energy source for cooking. It reduces air pollution because the stoves do not release smoke inside homes during use.

Accept supported plans that identify one resource problem, name a realistic management action, and accurately explain a connection to one listed outcome. Students may use conservation, increased efficiency, or technology, including a combination of these approaches.