

Quiz: Clean energy

Name: _____ Date: _____

Circle one answer for each question.

1. Which action is an example of electrification?

- A. Using more petrol in a car.
- B. Replacing a gas boiler with an electric heat pump.
- C. Burning coal instead of gas.

2. What does a heat pump mainly do?

- A. It creates electricity from deep rocks.
- B. It burns gas to warm water.
- C. It uses electricity to move heat from one place to another.

3. Which set helps keep electricity dependable on a calm night?

- A. Storage, connected grids, flexible use and sources that can keep running.
- B. Only solar panels, with no other support.
- C. Batteries that never need charging.

4. What is a battery or pumped-storage scheme doing when it supplies power?

- A. Creating a new primary source of energy.
- B. Returning some energy that was stored earlier.
- C. Producing energy without any losses.

5. At United Downs, what is the original source of the energy used to generate electricity?

- A. Heat in deep rocks.
- B. Sunlight falling on the wells.
- C. Water creating heat from nothing.

6. Why can capturing methane from waste help the climate?

- A. Burning methane produces no CO₂.
- B. It guarantees that no gas ever leaks.
- C. It can prevent methane escaping while providing useful energy.

Talk it through: Name two ways your imaginary town could receive electricity after sunset on a calm day.