Understand Energy Demand: High School Quiz

1. In the United States, when is demand for electricity the highest?

1. Winter
2. Fall
3. Spring
4. Summer

2. Which of the following users of electricity contribute to peak demand the most?

1. Heating and air conditioning
2. Computers
3. Televisions
4. Washing machines

3. On a hot summer day, what time is demand for electricity usually the highest?

1. 5am
2. 9am
3. 5pm
4. 11pm

4. True or False: States with really cold weather also experience peak demand.

1. True
2. False

5. What is a peaker plant?

1. The most efficient kind of power plant
2. Power plants that make electricity all year long
3. Extra power plants that utility companies turn on to make electricity only during peak demand
4. A plant with long leaves

6. What does a smart meter measure?

1. The amount of electricity a building uses over time
2. The level of lighting in a room
3. The temperature in a room
4. Human intelligence

7. Why is it especially important to conserve electricity during peak demand?

1. It is cheaper for utility companies to make electricity during peak demand
2. To prevent electricity shortages, such as blackouts
3. It is more expensive for utility companies to make electricity during peak demand
4. Both B and C are correct

8. How would you define Demand Response?

A. When people are forced to reduce their energy load

B. When people choose to shift electrical usage to off peak hours

C. Another term for a brownout

D. A more expensive time for electrical use

9. What uses of electricity can schools shift to off-peak hours?

1. Charging laptops
2. Upgrading computer software
3. Both A and B are correct
4. None of the above

10. How can you save electricity during peak demand at home?

1. Turn on appliances like dishwashers and washing machines before or after peak demand hours
2. Use less air conditioning
3. Charge electronics like cell phone before or after peak demand hours
4. All of the above