

Measuring Noise Pollution Pre-Activity Survey **ANSWER KEY**

1. How would you describe an environment?

Answer: The environment can be described as the air, water, and land in or on which people, animals, and plants live.

2. How would you describe pollution?

Answer: Pollution can be described as any undesirable state of the environment.

3. Have you ever hear about noise pollution? What do you think might cause noise pollution?

Answer: Noise pollution is caused by loud, disturbing and potentially harmful noises.

4. Have you ever heard the term decibel (dB)? What do you think decibels are used for?

Answer: Decibels (dB) are a unit of measure of sound intensity.

5. What is a microphone?

Answer: A microphone is a device for converting sound waves into an electrical signal

6. What is a sensor?

Answer: A sensor is a device converting physical factor into electrical signal

7. What might an engineer do to protect a person against noise pollution? (Be creative!)

(Creative answers are encouraged!) An engineer can redesign machines and vehicles to be quieter when operated. They can also design rooms and workspaces to be built with sound-absorbent materials. They might also design technology to protect a person's ear such as noise-cancelling headphones or ear plugs.