**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.**