Worksheet: Period and Frequency Integrated Science: Physics/Design

- 1. A string vibrates at a frequency of 20 Hz. What is its period?
- 2. A speaker vibrates at a frequency of 200 Hz. What is its period?
- 3. A swing has a period of 10 seconds. What is its frequency?
- 4. A pendulum has a period of 0.3 second. What is its frequency?
- 5. You want to describe the harmonic motion of a swing. You find out that it take 2 seconds for the swing to complete one cycle. What is the swing's period and frequency?
- 6. An oscillator makes four vibrations in one second. What is its period and frequency?
- 7. A pendulum takes 0.5 second to complete one cycle. What is the pendulum's period and frequency?
- 8. A pendulum takes 10 seconds to swing through 2 complete cycles.
 - a. How long does it take to complete one cycle?
 - b. What is its period?
 - c. What is its frequency?
- 9. An oscillator makes 360 vibrations in 3 minutes.
 - a. How many vibrations does it make in one minute?
 - b. How many vibrations does it make in one second?
 - c. What is its period in seconds?
 - d. What is its frequency in hertz?