

Get in Gear Post-Activity Quiz **Answer Key**

1. Define the following words.

Speed: A measure of how fast an object is moving. The rate of change of distance with respect to time.

Torque: A measure of how hard something is twisted. A twisting force.

Gear train: Two or more gears connected together.

2. Compute the gear ratios illustrated below:

	<p>Gear ratio: 1 to 1 or 1:1</p> <p>Circle the correct direction of rotation for:</p> <p>Idle gear: </p> <p>Output gear: </p>
	<p>Gear ratio: 11 to 5 or 11:5</p> <p>Circle the correct direction of rotation for:</p> <p>Idle gear: </p> <p>Output gear: </p>
	<p>Gear ratio: 1 to 1 or 1:1</p> <p>Circle the correct direction of rotation for:</p> <p>Idle gear: </p> <p>Output gear: </p>

3. In the gear assembly diagrams below, which one produces torque? B

Which one produces speed? A Which one is neutral? C (write the correct letter)

A	B	C

