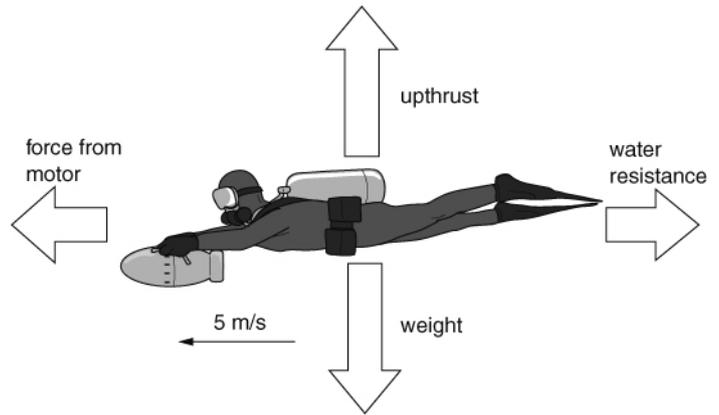


There are several different forces on a diver.

- 1 Describe what will happen to the diver in each situation below. Look very carefully at the sizes of the force arrows on the diagrams.
- 2 Think of a situation of your own that involves different forces on an object. Draw a diagram including force arrows, and explain how the forces will affect the movement of the object.



<p><b>A</b></p> <p>Diagram A shows a diver with four force arrows: upthrust (up), weight (down), a leftward arrow, and a rightward arrow. A velocity arrow labeled '5 m/s' points to the left.</p>	<p><b>B</b></p> <p>Diagram B shows a diver with four force arrows: upthrust (up), weight (down), a leftward arrow, and a rightward arrow. A velocity arrow labeled '0 m/s' is shown below the diver.</p>
<p><b>C</b></p> <p>Diagram C shows a diver with four force arrows: upthrust (up), weight (down), a leftward arrow, and a rightward arrow. A velocity arrow labeled '0 m/s' is shown below the diver.</p>	<p><b>D</b></p> <p>Diagram D shows a diver with four force arrows: upthrust (up), weight (down), a leftward arrow, and a rightward arrow. A velocity arrow labeled '5 m/s' points to the left.</p>
<p><b>E</b></p> <p>Diagram E shows a diver with four force arrows: upthrust (up), weight (down), a leftward arrow, and a rightward arrow. A velocity arrow labeled '2 m/s' points to the left.</p>	<p><b>F</b></p> <p>Diagram F shows a diver with four force arrows: upthrust (up), weight (down), a leftward arrow, and a rightward arrow. A velocity arrow labeled '2 m/s' points to the left.</p>

**I can...**

- identify balanced and unbalanced forces
- describe the effects of balanced and unbalanced forces.