



Balanced and Unbalanced Forces

We have read that the forces acting on something can be combined into a net force. You may remember that sometimes the net force is zero. When the net force is zero, we say the forces are **balanced**.



At other times, the forces combine to give a net force that is not zero and acts in one direction or another. When the net force acts in some direction, we say the forces are **unbalanced**.

When the forces on something are balanced, the motion of the thing does not change. If it is sitting still, it will go on sitting still. If it is moving at some speed in some direction, it will continue to move at that speed in that

continue reading

Unbalanced Forces of Diving

WELL DONE!



Changing Direction

Decelerating

Accelerating

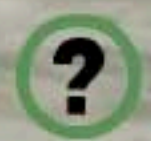
**Water Resistance
Buoyancy
Gravity** ↑

↓ **Gravity
Air Resistance**

Decelerating

Accelerating

Changing Direction



Reset



Which is the **best** way to say what an unbalanced force is?

- A) a net force that is not zero
- B) the force that acts against gravity
- C) a force that moves things sideways
- D) the largest force acting on something

WELL
DONE!



Open Discussion:

Give an example of a person or thing that is acted on by **balanced** forces. Name the forces.