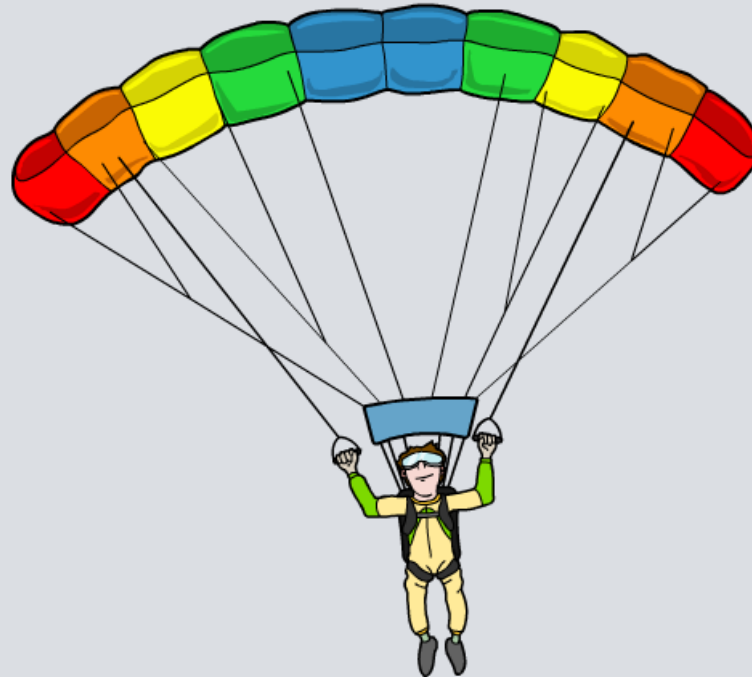


Newton's First Law



Introducing balanced forces



What is Newton's first law?

If the net force acting on an object is zero, all the forces are said to be **balanced**.

This forms the basis of **Newton's first law of motion**, which states:

If the forces on an object are balanced, the object will continue to do what it is already doing:

- if the object is **stationary**, it will **remain stationary**
- if the object is **moving**, it will **continue to move** at the same speed and in the same direction.





What is terminal velocity?

When a skydiver jumps out of a plane, why does he eventually stop accelerating?

Click "**play**" to find out more about terminal velocity.



Velocity–time graph of skydiver



What does the velocity–time graph of a skydiver show?

