

Forces Flashcards with Nova the Owl

Learning objective: To identify and describe the effects of forces including gravity, air resistance, water resistance, and friction.

Use these flashcards to test your knowledge of forces. Read the question on the front, think of the answer, and then check the back. You can work with a partner to quiz each other!

What is the force that pulls objects towards the centre of the Earth?

Gravity

Which force acts between two surfaces sliding over each other and slows motion down?

Friction

What is the unit used to measure force?

Newton

What type of drag force acts on an object moving through the air?

Air resistance

What do we call the upward force that water exerts on an object?

Water resistance (or upthrust)

If Nova the owl drops a feather and a stone, which force acts on both to pull them down?

Gravity

Why does a rough surface create more friction than a smooth surface?

Because the surfaces have more bumps that catch on each other, making it harder to slide.

True or False: Air resistance is a type of friction.

True

What tool would you use to measure the weight of an object in Newtons?

A force meter (or newton meter)

If you are cycling, what force pushes against you to slow you down as you move faster?

Air resistance

How does the size of an object affect the amount of water resistance it experiences?

Larger objects usually experience more water resistance than smaller objects.

What is the definition of a force?

A push or a pull acting on an object.