

Combined science - Physics - Key stage 4 - Forces

Sir Isaac Newton - A case study

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Independent Practice

Calculate the weight of a 12 kg object on Earth (9.8 N/kg).

Calculate the weight of a 350 g object on Earth. Give your answer to 2 significant figures.

Calculate the mass of an object 600 N object in Earth. Give your answer to 3 significant figures.

Calculate the mass of an object 7500 N object on Earth. Give your answer to 2 significant figures.



Independent Practice

1. What is Newton's first law?

If the resultant force acting on an object is zero and stationary

If the resultant force acting on an object is zero and moving....

2. What is Newton's second law? (hint: think about the acceleration RPA)

3. What is Newton's third law?

When two objects interact....

4. Explain how walking demonstrates Newton's third law

