

What are we learning about?

In this topic we are going to look at one of the cornerstones of Physics – forces. We will look in detail at how the different forces we know about cause the world around us to change, whether that is motion, shape or something else entirely!



Why are we learning about it?

The laws in this topic tell us how we are able to walk, cycle, drive and fly. As with everything, it is always important to know how and why the world works as it does!



What new KNOWLEDGE will I gain?

Motion and motion graphs, resultant forces, Newton's Laws, terminal velocity, SUVAT and momentum. gravity, Work Done, Hooke's Law, moments, pressure and stopping distances.



Forces and Motion: Learning Journey

How does this build on the SKILLS I already have?

As well as the maths element, we will also be building on your exam technique, especially for long-answer maths questions. We have seen these before, but in this topic we step up a level!



What new SKILLS will I develop?

Many of the skills that are 'new' to us in this topic are actually ideas from maths: scale drawings, tangents to a curve, graphs, etc. In amongst that are several new equations and definitions for us to get to grips with.



How does this build on the KNOWLEDGE I already have?

In KS3 you did two topics, one called forces and one called the effects of forces. This topic fully joins them together and adds a lot of equations to the definitions you already know.