1 1.3 Contact Forces

Activate for AQA

Lesson	Know	Apply	Extend
1.3.1 Friction and drag	I can identify examples of drag forces and friction. ☐	I can describe the effect of drag forces and friction. ☐	I can explain the effect of drag forces and friction in terms of forces. ☐
	I can describe how drag forces and friction arise. ☐	I can explain why drag forces and friction arise. ☐	I can explain why drag forces and friction slow things down in terms of forces. ☐
	I can write down two things an object can do when the resultant force on it is zero. ☐	I can describe what happens to a moving object when the resultant force acting on it is zero. ☐	I can interpret the motion of objects subject to drag forces and friction. ☐
	I can carry out an experiment to test a prediction of friction caused by different surfaces. ☐	I can plan and carry out an experiment to investigate friction, selecting suitable equipment. ☐	I can plan and carry out an experiment, stating the independent, dependent, and control variables. ☐
1.3.2 Squashing and stretching	I can state an example of a force deforming an object. ☐	I can describe how forces deform objects. ☐	I can explain how forces deform objects in a range of situations. ☐
	I can recognise a support force. ☐	I can explain how solid surfaces provide a support force. ☐	I can explain how solid surfaces provide a support force, using scientific terminology and bonding. ☐
	I can use Hooke's Law to identify proportional stretching. ☐	I can use Hooke's Law to predict the extension of a spring. ☐	I can apply Hooke's Law to make quantitative predictions with unfamiliar materials. ☐
	I can state how you know from a graph that a relationship is linear, present data in a line graph, and identify a pattern. ☐	I can present data in a graph and identify a quantitative relationship in the pattern. ☐	I can present data in a graph and recognise quantitative patterns and errors. ☐
1.3.3 Turning forces	I can state the law of moments. ☐	I can describe what is meant by a moment. ☐	I can apply the concept of moments to everyday situations. ☐

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	I can state the equation to calculate a turning force. ☐	I can calculate the moment of a force. ☐	I can use calculations to explain situations involving moments. ☐
	I can identify questions from results with help. ☐	I can independently identify scientific questions from results. ☐	I can suggest relevant, testable questions. ☐