

## Defining force (OE0011) – Revision Checklist

I can...	Lesson	Revised
Define scalar quantities and give examples	OE0011 LE2	
Define vector quantities and give examples	OE0011 LE2	
Describe how arrows can be used to represent vector quantities	OE0011 LE2	
Describe what the length and direction of an arrow tell us about a vector	OE0011 LE2	
Define a force and describe it as a push or pull	OE0011 LE3	
Distinguish between contact forces and non-contact forces	OE0011 LE3	
Recall examples of contact forces	OE0011 LE3	
Recall examples of non-contact forces	OE0011 LE3	
State whether force is a scalar or vector quantity	OE0011 LE3	
Describe the interaction between pairs of objects that produce forces, representing them as vectors	OE0011 LE3	
Define weight and state the force responsible for it	OE0011 LE5	
Explain the relationship between weight and gravitational field strength	OE0011 LE5	
Define the centre of mass of an object	OE0011 LE5	
Describe the relationship between the weight and mass of an object	OE0011 LE5	
State the instrument used to measure weight	OE0011 LE5	
Define resultant force	OE0011 LE3	
Calculate the resultant of two forces acting in a straight line	OE0011 LE3	
Use free body diagrams to describe situations with multiple forces, including when resultant force is zero	OE0011 LE3	
<b>(HT)</b> Describe examples of forces acting on an isolated object or system	OE0011 LE4	
<b>(HT)</b> Explain how a single force can be resolved into two components at right angles	OE0011 LE4	
<b>(HT)</b> Use vector diagrams to find the resultant of two forces, including magnitude and direction (scale drawings)	OE0011 LE4	
Explain what is meant by work done by a force	OE0011 LE9	
Give examples of forces involved in stretching, bending or compressing an object	OE0011 LE7	
Explain why more than one force is needed to change the shape of a stationary object	OE0011 LE7	
Describe the difference between elastic and inelastic deformation	OE0011 LE7	
State Hooke's Law and describe the relationship between force and extension for a spring	OE0011 LE8	
Describe a method for investigating the relationship between force and extension in a spring	OE0011 LE8	
Describe sources of error in an investigation between force and extension in a spring	OE0011 LE8	
Explain what elastic potential energy is and when it is stored in a spring	OE0011 LE8	
Describe the difference between a linear and non-linear force–extension relationship	OE0011 LE8	
Calculate the spring constant in linear cases	OE0011 LE8	
Interpret data from a force and extension investigation	OE0011 LE8	
Identify the elastic limit of a spring from a graph	OE0011 LE8	
Define distance and state whether it is a scalar or vector quantity	OE0011 LE8	
Define displacement and state whether it is a scalar or vector quantity	OE0011 LE8	