

| AQA TRILOGY Physics (8464) from 2016 Topics T6.5. Forces |                                                                                                                                                                             |   |   |   |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|
| Topic                                                    | Student Checklist                                                                                                                                                           | R | A | G |
| 6.5.1 Forces and their interactions                      | Identify and describe scalar quantities and vector quantities                                                                                                               |   |   |   |
|                                                          | Identify and give examples of forces as contact or non-contact forces                                                                                                       |   |   |   |
|                                                          | Describe the interaction between two objects and the force produced on each as a vector                                                                                     |   |   |   |
|                                                          | Describe weight and explain that its magnitude at a point depends on the gravitational field strength                                                                       |   |   |   |
|                                                          | Calculate weight by recalling and using the equation: [ $W = mg$ ]                                                                                                          |   |   |   |
|                                                          | Represent the weight of an object as acting at a single point which is referred to as the object's 'centre of mass'                                                         |   |   |   |
|                                                          | Calculate the resultant of two forces that act in a straight line                                                                                                           |   |   |   |
|                                                          | HT ONLY: describe examples of the forces acting on an isolated object or system                                                                                             |   |   |   |
|                                                          | HT ONLY: Use free body diagrams to qualitatively describe examples where several forces act on an object and explain how that leads to a single resultant force or no force |   |   |   |
|                                                          | HT ONLY: Use free body diagrams and accurate vector diagrams to scale, to resolve multiple forces and show magnitude and direction of the resultant                         |   |   |   |
| 6.5.2 Work done and energy                               | HT ONLY: Use vector diagrams to illustrate resolution of forces, equilibrium situations and determine the resultant of two forces, to include both magnitude and direction  |   |   |   |
|                                                          | Describe energy transfers involved when work is done and calculate the work done by recalling and using the equation: [ $W = Fs$ ]                                          |   |   |   |
|                                                          | Describe what a joule is and state what the joule is derived from                                                                                                           |   |   |   |
|                                                          | Convert between newton-metres and joules.                                                                                                                                   |   |   |   |
| 6.5.3 Forces and elasticity                              | Explain why work done against the frictional forces acting on an object causes a rise in the temperature of the object                                                      |   |   |   |
|                                                          | Describe examples of the forces involved in stretching, bending or compressing an object                                                                                    |   |   |   |
|                                                          | Explain why, to change the shape of an object (by stretching, bending or compressing), more than one force has to be applied – this is limited to stationary objects only   |   |   |   |
|                                                          | Describe the difference between elastic deformation and inelastic deformation caused by stretching forces                                                                   |   |   |   |
|                                                          | Describe the extension of an elastic object below the limit of proportionality and calculate it by recalling and applying the equation: [ $F = kx$ ]                        |   |   |   |
|                                                          | Explain why a change in the shape of an object only happens when more than one force is applied                                                                             |   |   |   |
|                                                          | Describe and interpret data from an investigation to explain possible causes of a linear and non-linear relationship between force and extension                            |   |   |   |
|                                                          | Calculate work done in stretching (or compressing) a spring (up to the limit of proportionality) by applying, but not recalling, the equation: [ $E_e = \frac{1}{2}kx^2$ ]  |   |   |   |
|                                                          | <b>Required practical 10:</b> Investigate the relationship between force and extension for a spring.                                                                        |   |   |   |

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**SJ Ball**



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