

GCSE Additional Physics Science Homework (Number 1a)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
Define resultant force	Describe how acceleration changes as a car at constant speed, goes around a roundabout	Explain why a parachutist reaches a constant speed

GCSE Additional Physics Science Homework (Number 1b)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
Define acceleration	Describe how drag is affected by the speed of an object	Explain how stopping distances can be increased

GCSE Additional Physics Science Homework (Number 1c)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
Define velocity	Describe the difference between speed and velocity	Explain how the resultant force affects the motion of an object

GCSE Additional Physics Science Homework (Number 2a)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
What affects the amount of kinetic energy an object has?	Describe methods of reducing impact forces	Explain how crumple zones work

GCSE Additional Physics Science Homework (Number 2b)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
What affects the amount of gravitational potential energy an object has?	Describe how mass affects the extension of a spring.	Explain the units for momentum

GCSE Additional Physics Science Homework (Number 2c)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
Define work done	Describe the energy changes as a rock falls from a cliff to the ground.	Explain why brake pads become warm

GCSE Additional Physics Science Homework (Number 3a)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
Draw 5 electrical component symbols	Describe how a diode affects current	Compare ac and dc

GCSE Additional Physics Science Homework (Number 3b)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
How is static electricity caused?	What is meant by resistance?	Explain why a parallel circuit is used for Christmas tree lights

GCSE Additional Physics Science Homework (Number 3c)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
Define current	Describe how current and voltage can be measured in a circuit	Compare a series and parallel circuit

GCSE Additional Physics Science Homework (Number 4a)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
Which pin is longer in a plug?	Describe ways of preventing electrocution	Explain why LEDs are better than filament bulbs

GCSE Additional Physics Science Homework (Number 4b)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
What colour is the neutral wire in a plug	Describe how a RCCB works	Explain why a RCCB is better than a fuse

GCSE Additional Physics Science Homework (Number 4c)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
What colour is the live wire in a plug	Describe how a fuse works	Explain why fuses are different thickness of wire

GCSE Additional Physics Science Homework (Number 5a)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
What is meant by half life?	Describe the plum pudding model	Explain why alpha is used in smoke detectors instead of gamma

GCSE Additional Physics Science Homework (Number 5b)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
What is beta radiation?	Describe Rutherford's experiment that came up with the nuclear model of the atom	Explain how an electric field can be used to identify the type of radiation emitted from a source

GCSE Additional Physics Science Homework (Number 5c)

Answer the question below in the space provided. Remember to provide as much detail as possible.

IDENTIFY	DESCRIBE	EXPLAIN
What is alpha radiation?	Describe the penetration power of gamma radiation	Explain how a nuclear fission can be controlled in a reactor

