

## BTEC Applied Science Unit 5 physics

What are the standard units of mass, length and time? - Correct answer-Kilograms, metres and seconds

What are the SI prefixes for  $10^3$ ,  $10^6$  and  $10^9$ ? - Correct answer-kilo, mega, giga

What are the SI prefixes for  $10^{-3}$ ,  $10^{-6}$  and  $10^{-9}$ ? - Correct answer-milli, micro, nano

What is work done? - Correct answer-The energy transferred in moving something

What is power? - Correct answer-the rate at which work is done

What happens to a gas when it is compressed? - Correct answer-Particles get closer together

Gas pressure increases

More collisions between particles and container

Temperature of gas rises

How do you calculate work done from a P-V graph? - Correct answer-The area under the graph

What is efficiency? - Correct answer-the percentage of the work input that becomes useful work output

What is thermal equilibrium? - Correct answer-when two objects have the same temperatures and net heat transfer is zero

What is the first law of thermodynamics? - Correct answer-The change in a system's internal energy is equal to the difference between heat added to the system from its surroundings and work done by the system on its surroundings

What are ideal gases? - Correct answer-All collisions are elastic

All motion is random

There are no forces between particles

What is absolute zero? - Correct answer-0 K

Particles have 0 kinetic energy

What is the second law of thermodynamics? - Correct answer-Heat will not flow from a colder body to a hotter one without an input of work. A natural process cannot fully be reversed.

# Past Papers Btec Principles In Science

**Jennifer Stafford-Brown, Simon  
Rea, Tim Eldridge**



## **Past Papers Btec Principles In Science:**

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