

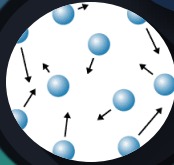


The Rudheath Senior Academy

Year 7

# Year 7 Science

Describe solids, liquids and gases?



How are Forces applied?

What are the differences between plant and animal cells?



How can we separate different substances?

What are the stages of reproduction?



How can we describe atoms & elements?

What are the differences between sound & light?



What are Ecosystems?

What factors effect the temperature of a substance?



How did the universe form?

To Year 8 ...



The Rudheath  
Senior Academy

Year  
8

# Year 8 Science

What is a balanced diet and why is it good for the body?



What are chemical reactions?



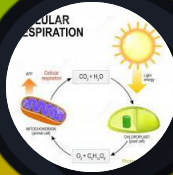
How is motion relative to the observers speed?



What happens when you mix an Acid and an Alkalis?



How do we get energy from food?



Why is the Periodic Table arranged the order it is?



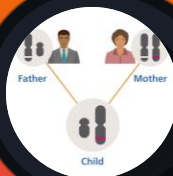
How does voltage differ in parallel and series circuits



How does the reactivity of a metal affect its use?



Why is DNA different for everyone except identical twins?



What are differences and similarities between wind pollinated and insect pollinated plants?



To Year 9 ...

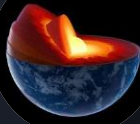


The Rudheath  
Senior Academy

Year  
9

# Year 9 Science

What is the Earth's structure?



What is the Earth's atmosphere?



How do waves transfer energy?



What are fluids?



What is magnetism and what impacts the strength of it?



What is atomic structure?



How do particles move?



What are cells?



What is radiation?



How is the periodic table organised?



To Year 10 ...



The Rudheath  
Senior Academy

Year  
10

# Year 10 Science

What is Electricity?



Organisation: What is the function of the heart?



What are Acids & Alkalis?

How do forces affect objects?



What are biological chemical reaction?



How do we analyse substances?

What do atoms look like?  
How do they bond together?



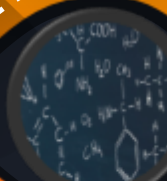
How is food digested?

What is exothermic and endothermic reaction?



What affect does heat have on particles?

What is the national grid



How do we calculate moles?

How can we separate a substance using electricity?



How do waves behave?

How are organisms adapted to their environment?



What is fractional distillation?

To Year 11 ...



The Rudheath  
Senior Academy

Year  
10

# Year 10 Triple Science

What is Electricity?

Organisation: What is  
the function of the  
heart?

What is momentum?

What are biological  
chemical reaction?

How do we  
calculate moles?

What affect does  
heat have on  
particles?

How do waves  
behave?

How is food  
digested?

What are  
pathogens?

How do we analyse  
substances?

What are Acids  
& Alkalis?

What do atoms  
look like?  
How do they  
bond together?

Chemical &  
energy changes

Earths resources

How can we  
separate a  
substance using  
electricity

Domestic electricity  
& energy

What are  
endothermic and  
exothermic  
reactions?

How are organisms  
adapted to their  
environment?

To Year 11 ...

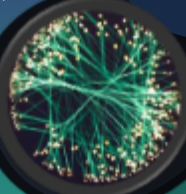


The Rudheath  
Senior Academy

Year  
11

# Year 11 Science

How is energy transferred?



What factors affect rate of reaction?



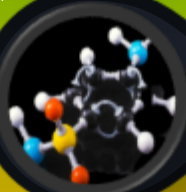
How has our atmosphere evolved?



What are biological chemical reactions?



What is fractional distillation?



What is magnetism?



How are our features inherited?



How are metals extracted?



How do we regulate internal conditions?



Revision  
and Exam  
preparation



A- Level Biology  
A- Level Physics  
A- Level Chemistry

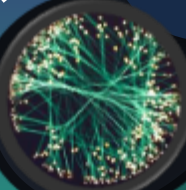


The Rudheath  
Senior Academy

Year  
11

# Year 11 Triple Science

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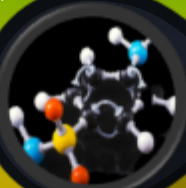
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What is Space

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How do we regulate internal conditions?



Revision and Exam preparation



A- Level Biology  
A- Level Physics  
A- Level Chemistry