

Key Stage 3 Programme of Study

| Year Group | Term 1 | Term 2 | Term 3 | Term 4 | Term 5 | Term 6 |
|------------|---|---|--|---|---|--|
| 7 | Topic/Enquiry: C1.1 Particles B1.1 Cells Key knowledge: Know the three states of matter Use the particle model to describe and explain the properties of each state. Explain Changes of state in terms of energy and forces of attraction between particles. Apply knowledge of state changes to diffusion and gas pressure. Describe density. Know that all living things are made of cells | Topic/Enquiry: P1.1 Forces B1.2 Reproduction Key Knowledge: Describe the effect of gravity on objects. Identify the effects of air resistance, water resistance and friction that act between moving surfaces. Describe the difference between contact and non-contact forces and the common examples. Describe balanced and unbalanced forces Interpret force diagrams | Term 3 Topic/Enquiry: C1.2 Atoms, Elements and compounds Key Knowledge: Define atoms and elements. Understand the periodic table Describe different types of atoms, in particular metals and non-metals and their differing properties. Describe and explain compounds. Use chemical symbols to describe compounds. Assessment: Tailor made Banded assessments (F/I/A) | Term 4 Topic/Enquiry: P1.2 Space Key Knowledge: Understand the difference between mass and weight using Calculate force and gravity. Explain how gravity keeps objects in orbit Describe our solar system, including using models to represent different phenomena. Apply knowledge of orbits to learn about natural and artificial satellites. Describe the movement of the Earth to explain seasons and eclipses. | Term 5 Topic/Enquiry: B1.3 Interdependence C1.3 Mixtures Key Knowledge: Describe the levels of organisation within an ecosystem Understand how different sampling techniques can be used to study a place in more detail. Learn how organisms within an ecosystem rely on each other and their environment for survival. Consider how different organisms compete for survival. | Term 6 Topic/Enquiry: Cells P1.3 Energy transfers P1.4 Electric Circuits - Current and Potential Difference Key Knowledge: State how energy can be measured in Joules and that 1 joule is a very small amount of energy. A careful describe energy stores. Understand energy stores in food as an example Explain energy efficiency and transfer of energy between stores. Describe models of electricity, looking at electrical circuits as a whole, as a pathway by which energy is transferred. Compare two different types of |
| | Understand the processes that occur within all | Calculate resultant forces. | Values: | and eclipses. | Understand techniques used to separate | different types of circuit (series and parallel) Explain |

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| | cells and within | Use force metres | | Assessment: | mixtures and | and calculate |
| | specialised cells. | to measure forces. | | Tailor made Banded | solutions. | current. |
| | Develop skills in | | | assessments (F/I/A) | Carry out | Represent |
| | using a | • | | | investigations | electrical circuits |
| | microscope | Explain mitosis | | Values: | using various | using the correct |
| | Learn how to | and meiosis in | | | simple and more | diagrams and |
| | calculate | | | | complex | circuit symbols. |
| | magnification | Explain evolution of species through | | | separation | Measure and |
| | using | | | | techniques, such | compare current in |
| | micrographs | natural selection. | | | as decanting, | both series and |
| | merographis | Describe | | | evaporation and | parallel circuits. |
| | Assessment: | competition | | | chromatography. | Measure and |
| | Tailor made Banded | between species | | | cinomatography. | |
| | | and adaptations to | | | | compare voltage in both series and |
| | assessments (F/I/A) | suit their | | | | |
| | Values: | environment. | | | Assessment: | parallel circuits. |
| | values: | | | | Tailor made Banded | A |
| | | Assessment: | | | assessments (F/I/A) | Assessment: |
| | | Tailor made Banded | | | | Tailor made Banded |
| | | assessments (F/I/A) | | | Values: | assessments (F/I/A) |
| | | Values: | | | | Values: |
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| | | | | | | |
| 8 | Topic/Enquiry: | Topic/Enquiry: | Topic/Enquiry: | Topic/Enquiry: | Topic/Enquiry: | Topic/Enquiry: |
| 8 | Topic/Enquiry: B2.1 Tissues and | Topic/Enquiry: P2.1 Movement and | Topic/Enquiry: C2.2 Changing | Topic/Enquiry: B2.3 Life Diversity | Topic/Enquiry: P2.3 Electric Circuits - | Topic/Enquiry: P2.4 Light |
| 8 | B2.1 Tissues and | , , , , | C2.2 Changing | B2.3 Life Diversity | 1 ' ' ' | Topic/Enquiry: P2.4 Light |
| 8 | B2.1 Tissues and Organs | P2.1 Movement and Pressure | C2.2 Changing Substances | | P2.3 Electric Circuits - Resistance | P2.4 Light |
| 8 | B2.1 Tissues and | P2.1 Movement and Pressure B2.2 Respiration and | C2.2 Changing | B2.3 Life Diversity C2.3 Earth Systems | P2.3 Electric Circuits - Resistance B2.4 Nutrition | P2.4 Light Key Knowledge: |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis | P2.1 Movement and Pressure | C2.2 Changing Substances P2.2 Magnetism | B2.3 Life Diversity | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: | P2.4 Light Key Knowledge: Understand how |
| 8 | B2.1 Tissues and Organs | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis | C2.2 Changing Substances | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current | P2.4 Light Key Knowledge: Understand how light travels and |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: | P2.1 Movement and Pressure B2.2 Respiration and | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: - Describe | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: | P2.4 Light Key Knowledge: Understand how light travels and the effects of |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits. | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions. | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction of the muscular | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is covered in a given | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions interpret | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. Understand that environments | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship between current | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. Explain how light |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction of the muscular and skeletal | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is covered in a given time. | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions interpret chemical | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. Understand that environments exert different | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship between current and resistance. | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. Explain how light reaches the retina, |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction of the muscular and skeletal systems. | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is covered in a given time Explain changing | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions interpret chemical equations which | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. Understand that environments exert different selection | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship between current and resistance Understand the | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. Explain how light reaches the retina, including |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction of the muscular and skeletal systems. Describe the | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is covered in a given time Explain changing speeds, including | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions interpret chemical equations which use symbols, | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. Understand that environments exert different selection pressures that | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship between current and resistance Understand the relationships | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. Explain how light reaches the retina, including comparing the |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction of the muscular and skeletal systems. Describe the structure and | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is covered in a given time Explain changing speeds, including relative motion | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions interpret chemical equations which use symbols, numbers and | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. Understand that environments exert different selection pressures that result in | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship between current and resistance Understand the relationships between current, | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. Explain how light reaches the retina, including comparing the shape of the lens |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction of the muscular and skeletal systems. Describe the structure and function of the | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is covered in a given time Explain changing speeds, including relative motion and acceleration | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions interpret chemical equations which use symbols, numbers and chemical | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. Understand that environments exert different selection pressures that | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship between current and resistance Understand the relationships between current, voltage and | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. Explain how light reaches the retina, including comparing the shape of the lens and cornea in |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction of the muscular and skeletal systems. Describe the structure and function of the skeletal system. | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is covered in a given time Explain changing speeds, including relative motion and acceleration as the rate of | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions interpret chemical equations which use symbols, numbers and chemical formulae | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. Understand that environments exert different selection pressures that result in | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship between current and resistance Understand the relationships between current, voltage and resistance and | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. Explain how light reaches the retina, including comparing the shape of the lens and cornea in human eyes. |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction of the muscular and skeletal systems. Describe the structure and function of the skeletal system Describe how | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is covered in a given time Explain changing speeds, including relative motion and acceleration as the rate of change of speed. | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions interpret chemical equations which use symbols, numbers and chemical formulae - Understand the | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. Understand that environments exert different selection pressures that result in diversity. Understand how | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship between current and resistance Understand the relationships between current, voltage and resistance and use Ohm's Law | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. Explain how light reaches the retina, including comparing the shape of the lens and cornea in human eyes. Compare at the |
| 8 | B2.1 Tissues and Organs C2.1 Acids and Alkalis Key Knowledge: - Understand how movement is coordinated by the interaction of the muscular and skeletal systems. Describe the structure and function of the skeletal system. | P2.1 Movement and Pressure B2.2 Respiration and Photosynthesis Key Knowledge: - Calculate speed as a measure of distance is covered in a given time Explain changing speeds, including relative motion and acceleration as the rate of | C2.2 Changing Substances P2.2 Magnetism Key Knowledge: - Understand the nature of chemical reactions interpret chemical equations which use symbols, numbers and chemical formulae | B2.3 Life Diversity C2.3 Earth Systems Key Knowledge: Describe variation and its causes. Understand that environments exert different selection pressures that result in diversity. | P2.3 Electric Circuits - Resistance B2.4 Nutrition Key Knowledge: - Recap current and voltage in series and parallel circuits Describe the relationship between current and resistance Understand the relationships between current, voltage and resistance and | P2.4 Light Key Knowledge: Understand how light travels and the effects of refraction and reflection Interpret simple ray diagrams. Explain how light reaches the retina, including comparing the shape of the lens and cornea in human eyes. |

| | pairs to exert | time graphs and | Conservation of | the environment | resistance | between the eye |
|---|--------------------|---------------------------------------|------------------------------------|---------------------|-------------------------------------|------------------------------------|
| | force on the | calculate speed | Mass. | in which they | quantitatively. | and a camera. |
| | skeletal system. | from these. | - Balance | live in order to | - Measure and | Understand the |
| - | Understand the | - Understand the | equations for | survive and | calculate the | relationship |
| | structure and | fundamental ideas | reactions learnt | reproduce. | resistance of a | between primary |
| | function of the | of pressure. | in this unit. | ' | wire, linking back | colours of light and |
| | breathing | | | - State features of | to of different | white light. |
| | system. | | | selective | lengths of wire | • |
| | | Understand basic | Understand the | breeding. | and explaining | Assessment: |
| | | processes of | fundamentals of | - Describe | this relationship. | Banded assessments |
| | | aerobic and | magnetism as a | evolution. | - Describe | (F/I/A) |
| _ | Understand how | anaerobic | non-contact | - Explain | resistance in | Values: |
| | drugs affect | respiration and | force. | ' | series and | |
| | organ systems. | the role they play | Learn the | extinction and | parallel. | |
| _ | Describe a range | in releasing energy | different | the effect of | | |
| | of recreational | for organisms to | magnetic | human | | |
| | drugs and | use. | materials and | behaviour on the | - Describe a | |
| | understand the | Understand the | the rules of | rates of | balanced diet | |
| | impact they | relationship | attraction and | extinction. | and the | |
| | have on our | between | repulsion. | | importance of | |
| | bodies as | respiration and | - Draw and | - Describe the | different | |
| | systems. | breathing. | interpret | water cycle and | nutrients. | |
| _ | | - Describe how | magnetic fields | the rock cycle. | Investigate how | |
| | different | fermentation is | and their | - Describe | to test for some | |
| | muscles exert | used in the | properties. | different types | of nutrients, | |
| | different forces. | production of | Explain the | of rock and how | - Understand how | |
| _ | | bread and | differences | they are cycled. | nutrients are | |
| _ | Learn about | alcoholic drinks. | between | - Explain the | broken down | |
| | common acids | Review the organs | permanent | processes | and used by the | |
| | and alkalis | of a plant and | magnets and | involved in the | body. | |
| | around the | consider how they | electromagnets | water cycle | - Describe the | |
| | home and the | aid the process of | Describe the | - Understand why | function of | |
| | use of indicators | photosynthesis. | factors that | water is so | enzymes in the | |
| | to assess the pH | Study | affect the | important to | digestive system | |
| | of a substance. | nonphotosynthetic | strength of an | processes such | - Investigate | |
| | Describe | plants and | electromagnet. | as respiration | enzyme action. | |
| | reactions of | investigate | Describe how | and | | |
| | acids, including | photosynthesis in | the Earth's | photosynthesis | | |
| | neutralisation, | more detail. | magnetic field | explain pollution | Assessment: | |
| | reaction of acids, | | functions. | and its effects. | Banded assessments | |
| | with metals and | Assessment: | | | (F/I/A) | |
| | metal | Banded assessments | | Assessment: | Values: | |
| | carbonates. | (F/I/A) | Assessment: | Banded assessments | | |
| | | Values: | Banded assessments | (F/I/A) | | |
| | | | (Ε/I/Δ) | ` ` ' ' | | |

(F/I/A)

| | T | T | T | T | T | T |
|---|--------------------|----------------------------------|----------------------------------|-------------------------------------|-------------------------------------|------------------------------------|
| | - Represent | | Values: | Values: | | |
| | chemical | | | | | |
| | reactions using | | | | | |
| | word equations. | | | | | |
| | | | | | | |
| | Assessment: | | | | | |
| | Banded assessments | | | | | |
| | (F/I/A) | | | | | |
| | (, , , , , | | | | | |
| | Values: | | | | | |
| 9 | Topic/Enquiry: | Topic/Enquiry: | Topic/Enquiry: | Topic/Enquiry: | Topic/Enquiry: | Topic/Enquiry: |
| | 0 11 5: 1 | | | D 1: | 4) 5 | 4) 51 |
| | Cell Biology | Organisation | Atomic Structure and | Bonding, | 1) Energy | 1) Electricity |
| | | | the Periodic Table | structure and | | |
| | Key Knowledge: | Key Knowledge: | | properties of | 2) Particle | 2) Organic |
| | The subcellular | Describe the | Key Knowledge: | matter | Model of | Chemistry |
| | structures of a | different systems | Describe the | Key Knowledge: | Matter | |
| | cell and their | in the human body | differences | | | |
| | functions | Explain how | between atoms, | How ions are | Key Knowledge: | Key Knowledge: |
| | The evolution | variety of cells is | elements, | formed | Describe the | • Current, |
| | and | crucial for | compounds, | What type of ion | different energy | Potential |
| | development of | complicated large | mixtures | is formed based | stores and how | Difference and |
| | cells. | organisms to | Understand the | on the atom and | they are | Resistance |
| | | • | | | transferred from | |
| | • The use of | survive | history of the | where in the | | Circuit devices |
| | scientific | Describe the | atom and how it | periodic table it | one store to | and I-V |
| | equipment to | conditions that are | has developed | is | another | characteristics |
| | develop | vital for life to | Investigate | How ionic | efficiently | Series and |
| | knowledge and | survive and | separation | bonding happens | Understand that | Parallel |
| | understanding | chemical process | techniques | Properties of | energy is never | circuits |
| | Use prior | to occur. | Practice | ionic compounds | lost or gained, | Electricity in |
| | knowledge to | Describe and | balancing | How covalent | merely changes | the home |
| | develop | explain the role of | equations for | bonding happens | stores. | Energy, Power |
| | structure and | some of the | various reactions | Properties of | Investigate the | and the |
| | function of | organs in our | Understand how | covalent | specific heat | National Grid |
| | various parts of | bodies | the periodic | compounds | capacity of | What are |
| | a cell | | table has | | different | |
| | a cen | | developed over | How metallic | materials | hydrocarbons? |
| | Assessment: | explain how | time and | bonding happens | • Discuss | Products and |
| | | lifestyle can have | | Properties of | | separation |
| | Assessment: | both positive and | describe | each state of | advantages and | techniques for |
| | Banded assessments | negative effects | patterns within it | matter | disadvantages of | crude oil? |
| | (F/I/A) | on our health | | How a change of | renewable and | Environmental |
| | | | | state occurs | non-renewable | factors of |
| | Values: | Assessment: | Assessment: | | energy resources | crude oil |
| | | Assessment: | Assessment: | Organisation | and justify | |
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| Banded assessments | Banded assessments | | reasons for their | |
| (F/I/A) | (F/I/A) | Key Knowledge: | use in a given | Assessment: |
| | | Describe the | area | Assessment: |
| Values: | | different | The particle | Banded assessments |
| Atomic Structure and | Values: | systems in the | model and | (F/I/A) |
| the Periodic Table | Energy | human body | motion in gas | |
| | | Explain how | Density, Internal | Values: |
| Key Knowledge: | Key Knowledge: | variety of cells is | Energy and | |
| Describe the | Describe the | crucial for | states | |
| differences | different energy | complicated | Changes in state | |
| between atoms, | stores and how | large organisms | Heating and | |
| elements, | they are | to survive | _ | |
| compounds, | transferred from | Describe the | Cooling | |
| mixtures | one store to | | Specific Heat | |
| | | conditions that | Capacity | |
| Understand the | another | are vital for life | | |
| history of the | efficiently | to survive and | | |
| atom and how it | Understand that | chemical process | | |
| has developed | energy is never | to occur. | Assessment: | |
| Investigate | lost or gained, | Describe and | Assessment: | |
| separation | merely changes | explain the role | Banded assessments | |
| techniques | stores. | of some of the | (F/I/A) | |
| Practice balancing | Investigate the | organs in our | | |
| equations for | specific heat | bodies | Values: | |
| various reactions | capacity of | Describe and | | |
| Understand how | different | explain how | | |
| the periodic table | materials | lifestyle can have | | |
| has developed | Discuss | both positive | | |
| over time and | advantages and | and negative | | |
| describe patterns | disadvantages of | effects on our | | |
| within it | renewable and | health | | |
| vvicinii it | non-renewable | riculti | | |
| | energy resources | Assessment: | | |
| Assessment: | and justify | Assessment: | | |
| | reasons for their | Banded assessments | | |
| Assessment: | | | | |
| Banded assessments | use in a given | (F/I/A) | | |
| (F/I/A) | area | | | |
| | | Values: | | |
| | | | | |
| Values: | | | | |
| | Assessment: | | | |
| | Assessment: | | | |
| | Banded assessments | | | |
| | (F/I/A) | | | |
| | | | | |
| | Values: | | | |