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| --- | --- | --- | --- | --- | --- | --- |
| A black and white logo  Description automatically generated**Year** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **7** | * Behaviour of Matter: The Particle Model
* Objects Effects on Other Objects: Changing Shape
* Building Blocks of Life: Animal Cells
 | * Behaviour of Matter: The Atom
* Beyond Earth: Astrophysics
 | * Behaviour of Matter: Changing State
* The Human Body: Breathing
 | * Chemical Reactions: Types of Reaction.
* Our Earth: The Cycles
 | * Building Blocks of Life: Reproduction
* The Human Body: Healthy Living
 | * Behaviour of Matter: Purity
* Beyond Earth: The Space Race
 |
| **Assessment Method** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **End of Formal Assessment using an Unit Exam**  | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** |
| A black and white logo  Description automatically generated**Opportunities** | ***Recall, Explicit Tier 3 Language, Reading Presentations and Science Articles, Knowledge Organisers, Homework Tasks, Careers information*** |
| **8** | * Chemical Reactions: Types of Reaction
* Objects Effect on Other Objects: Changing Shape
* Chemical Reactions: The pH Scale.
 | * The Human Body: Digestion
* Our Earth: The Atmosphere
* Behaviour of Energy: Principles of Energy
 | * Behaviour of Energy: Heating and Cooling.
* Building Blocks of Life: Respiration
* Behaviour of energy: Energy in the Home.
 | * Building Blocks of Life; Plant Cells
* Objects Effects on Other Objects: Electrical Circuits
 | * Behaviour of Energy: Mechanical Waves.
* Objects Effects on Other Objects: Forces and Motion
 | * Interaction of Life: Photosynthesis
* Behaviour of Matter: The Periodic Table
* Object Effects on Other Objects: Changing Forces.
 |
| **Assessment Method** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** |
| A black and white logo  Description automatically generated**Opportunities** | ***Recall, Explicit Tier 3 Language, Reading Presentations and Science Articles, Knowledge Organisers, Homework Tasks, Careers information*** |
| **9** | * The Human Body: Healthy Living
* Behaviour of Matter: The Periodic Table
* The Human Body: Digestion
 | * Objects Effects on Other Objects: Magnetism
* Interaction of Life: Interdependence
 | * Objects Effects on Other Objects: Gas Pressure
* Chemical Reactions: Reactivity of Metals
* Behaviour of Energy: Light
 | * Beyond Earth: Looking Outwards
* Object Effects on Other Objects: Static Electricity
* Building Blocks of Life: Inheritance and Evolution
 | * Transition: Cell Biology
* Transition: Atomic Structure and the Periodic Table
 | * Transition: Energy
* Transition: Ecology
 |
| **Assessment Method** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** | **Formal Assessment using an Unit Exam** |
| A black and white logo  Description automatically generated**Opportunities** | ***Recall, Explicit Tier 3 Language, Reading Presentations and Science Articles, Knowledge Organisers, Homework Tasks, Careers information*** |
| **10** | **Organisation*** How are substances transported in animals and plants?

**Structure, Bonding and Properties*** How do substances behave and why?

**Particles, Atoms and Radiation*** How is matter arranged and can we predict how it behaves?

**Infection and Response*** How do pathogens make us ill?
* How do our bodies defend against pathogens?
 | **Chemical Changes*** What are the different types of reactions?
* How can we predict the products of reactions?

**Bioenergetics*** What are the vital reactions that occur in organisms?

**Electricity*** How do we produce and use electricity?

**Energetics*** How is energy transferred during a chemical reaction?
 | **Homeostasis and Response*** How do our bodies respond to changes in our environment?

**Monitoring reactions*** How can we monitor and control the rate of a reaction?

**Magnetism*** How do objects interact with magnetic fields?

**Inheritance*** How do we inherit characteristics and how do organisms evolve?

**Rates of Reaction*** How can we monitor and control chemical reactions?
 |
| **Assessment Method** | **End of Unit Exam** | **End of Unit Exam** | **End of Unit Exam** | **End of Unit Exam** | **End of Unit Exam** | PPE |
| A black and white logo  Description automatically generated**Opportunities** | ***Recall, Explicit Tier 3 Language, Reading Presentations and Science Articles, Knowledge Organisers, Homework Tasks, Careers information***  |
| **11** | **Forces*** How do forces impact the world around us?

**Inheritance*** How do we inherit characteristics?
* How do organisms evolve over time?

**Organic Chemistry*** How do we extract and use fuels?

**Waves*** How do waves transit energy?
 | **Electromagnetism*** How are electromagnetic used?

**Ecology*** How do human actions impact ecosystems?

**Using Resources*** How are raw materials processed and how does this impact our environment?
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| **Assessment Method** | **End of Unit Exam** | PPE |  | PPE | GCSEs | GCSEs |
| A black and white logo  Description automatically generated**Opportunities** | ***Recall, Explicit Tier 3 Language, Reading Presentations and Science Articles, Knowledge Organisers, Homework Tasks, Careers information***  |