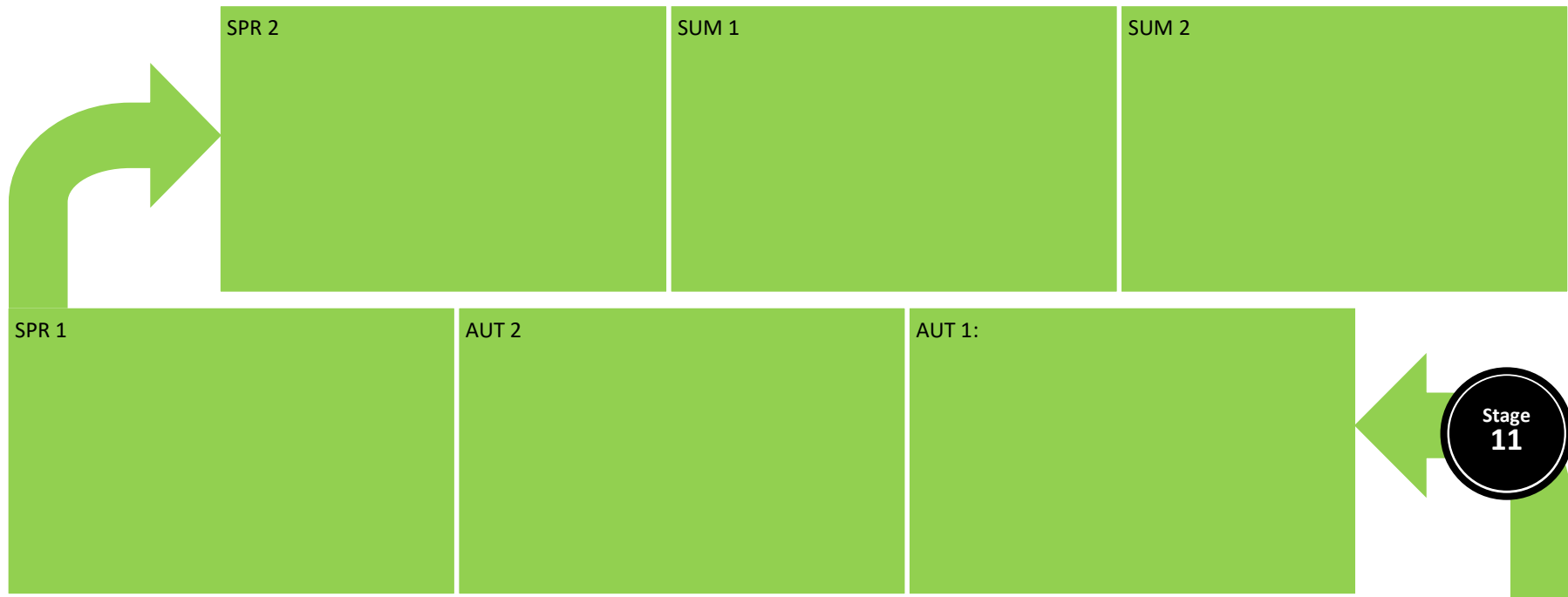
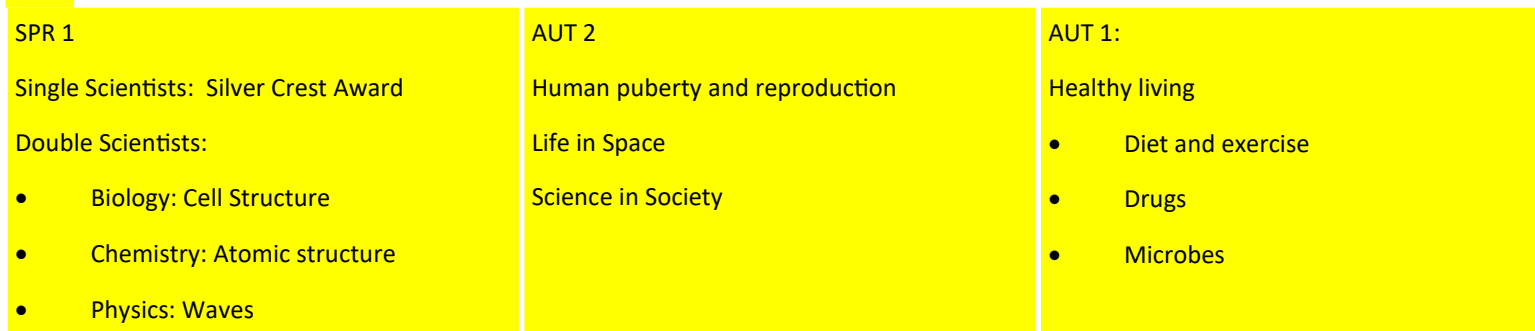
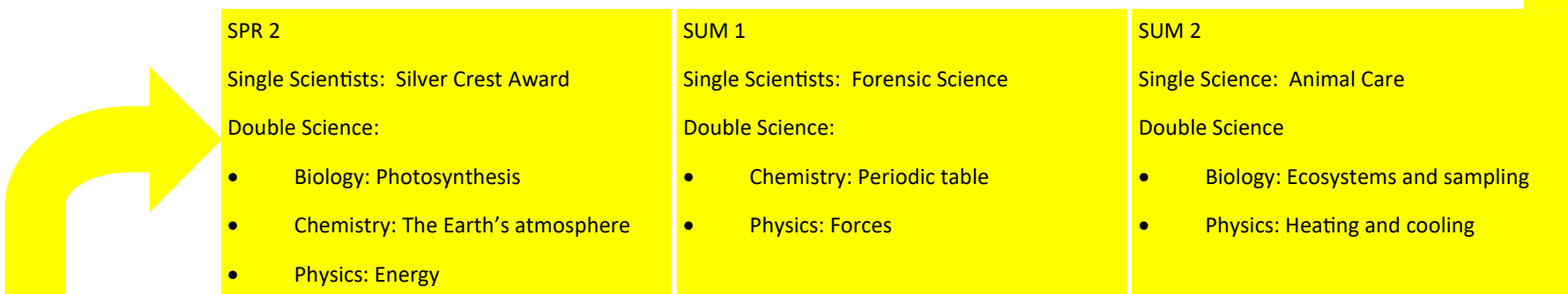


Cody Oaks Curriculum Pathway (SUBJECT)

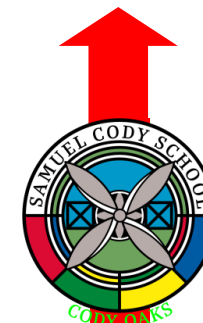




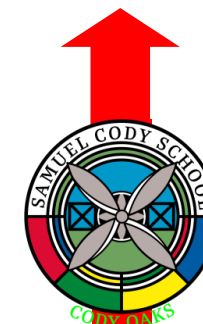
Stage
10



Stage
9



Therapeutic approach



Therapeutic approach

SPR 2
Staying alive Students will revisit the structure of the cell again and learn about how cells divide through mitosis and meiosis. This leads to the development of the human body (puberty) and sexual reproduction.

SUM 1
Waves : introduction to the concept of how waves transfer energy (revisit) and the different ways waves impact every day life, from hearing to music and how we see.
Working scientifically:

SUM 2
Chemical reactions : revisit the structure of the atom and the periodic table to look at reactions between different elements. They investigate every day applications such as how to prevent rusting.
Working scientifically: evaluate the reliability of methods and suggest possible improvements

SPR 1
Periodic table: revisit the structure of the atom; learn about the different elements & how they are organised into the periodic table; investigate the reactions of some of the most common elements.
Working scientifically: valuate data, showing awareness of potential sources of random and systematic error

AUT 2
Heating and cooling : what happens to particles and the materials they form when they are heated or allowed to cool. They will learn about how heat energy is transferred. This unit builds on earlier learning on energy and particles.
Working scientifically: Bronze Crest Award

AUT 1
Human Body: revisit the structure of the cell; learn how groups of cells work together in digestion, breathing and circulation.
Working scientifically: Bronze Crest Award



SPR 2
Particles and mixtures: Students learn about the different types of particles, atoms, molecules and how they can be separated.
Working Scientifically: Scientific attitudes: accuracy, precision, repeatability and reproducibility

SUM 1
Forces and Motion : Students learn about forces and their interactions, from the launch of projectiles, collisions between objects and how they cause motion.
Working scientifically: make and record observations and measurements using a range of methods

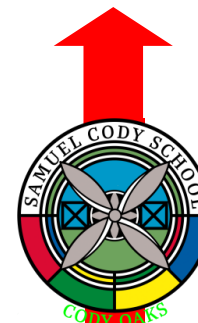
SUM 2
Interdependence: the interactions between organisms in an ecosystem and the factors that effect where organisms are able to live.
Working scientifically: analysing patterns and evaluating data

SPR 1
Energy: learn about the types of energy stores and transfers.
Working scientifically: planning investigations including independent, dependent and control variable.

AUT 2
Cells: the structure of the cell, how molecules move in and out of cells and how cells work together to form organs .
Working scientifically: how scientific ideas are used in society over time and the impact of these developments on society.

AUT 1
Human impact: the uses of acids and alkalis and how the production of chemicals can have an impact on the environment, from acid rain to global warming and pesticide use.
Working scientifically: Lab safety and using laboratory equipment .





Therapeutic approach

SPR 2 Healthy Eating Recognise the impact of diet, drugs and exercise Describe the transportation of nutrition How Science Works	SUM 1 Light <ul style="list-style-type: none"> • Recognise how light travels and how we see things • Explain shadows How Science Works	SUM 2 Circulatory system Identify and name parts of the circulatory system How Science Works
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SPR 1 Electrical circuits <ul style="list-style-type: none"> • Explain the variation in functionality of components • Use symbols to draw circuits How Science Works	AUT 2 Evolution <ul style="list-style-type: none"> • Recognise that living things have changed over time and that fossils provide information • Recognise variation • Explain adaptation 	AUT 1: Living things and habitats <ul style="list-style-type: none"> • Describe and give reasons for classification How Science Works
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SPR 2: Materials and their Properties <ul style="list-style-type: none"> • Burning • Chemical Changes How Science Works <ul style="list-style-type: none"> • Recording data • Tables and graphs 	SUM 1: Life Cycles <ul style="list-style-type: none"> • Examine differences in the life cycles of mammals, amphibians, insects and birds How Science Works <ul style="list-style-type: none"> • Reporting findings 	SUM 2: Life Cycles <ul style="list-style-type: none"> • Reproduction of some plants and animals. • Changes in humans from embryo to old age. How Science Works <ul style="list-style-type: none"> • Evaluation
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SPR 1: Materials and their Properties <ul style="list-style-type: none"> • Compare and group materials based on properties How Science Works <ul style="list-style-type: none"> • Risk Assessment • Taking measurements 	AUT 2: Forces <ul style="list-style-type: none"> • Explain the force of gravity • Identify effects of air and water resistance and friction • Recognise impact of mechanisms on forces How Science Works <ul style="list-style-type: none"> • Making predictions 	AUT 1: Sun, Earth and the moon <ul style="list-style-type: none"> • Describe the movement of the Earth and Moon, explain night and day How Science Works <ul style="list-style-type: none"> • Lab safety • Lab equipment
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