

Knowsley Village School

Class plan - Year 5 Cycle A



Dynamic Dynasties **History**

Companions

- Forces and Mechanisms **Science**
- Colour in Landscapes **Art and design**
- Moving Mechanisms **Design and technology**
- Investigating Our World **Geography**
- Earth and Space **Science**
- Taotie **Art and design**

Planned term

Autumn

English- Pathways to Write

Young, Gifted and Black by Jamia Wilson Race to the Frozen North: The Matthew Henson Story by Catherine Johnson The Lost Happy Endings by Carol Ann Duffy and Jane Ray

Suggested text

Bronze and Sunflower – Cao Wenxuan. [Investigating Our World] - Collins Junior Atlas - Stephen Scoffham and Collins Kids

Memorable experience

The Yellow Emperor and the Xia Dynasty. [Moving Mechanisms] - Exploring pneumatics. [Taotie] - Exploring taotie motifs

Innovate challenge

Life after the Shang Dynasty. [Forces and Mechanisms] - Let's investigate focus: Observing, measuring and recording. [Moving Mechanisms] - Designing and making a pneumatic prototype. [Earth and Space] - Let's investigate focus: Research. [Taotie] - Making taotie pieces

Science

[Forces and Mechanisms] - Contact and non-contact forces; Gravity; Mass and Weight; Discovering gravity – important scientists; Friction; Air resistance; Water resistance; Mechanisms – levers, pulleys, gears; Investigating forces and mechanisms; Working scientifically – Identifying and classifying, Observing changes over time, Comparative tests, Research, Pattern seeking. [Earth and Space] - The Solar System; Scientists of the past who discovered how the Solar System works; The Earth, Sun and Moon; Planets and stars are spherical; Daytime and night time; Sundials; Day length and the seasons; Times of the day around the world; The phases of the Moon; Lunar and solar eclipses; Working scientifically – Identifying and classifying, Research, Changes over time, Pattern seeking

History

Ancient China; Timelines and chronology; Shang Dynasty; Sources and artefacts; Oracle bones and religious beliefs; Bronze Age in ancient China; Historical enquiry; Significance of jade and silk; Power and social hierarchy; Everyday life; Warfare; Significant individual – Di Xin; End of the Shang Dynasty; Bronze Ages around the world; Life after the Shang Dynasty; Legacy

Geography

[Investigating Our World] - Ordnance Survey maps; Contour lines; Six-figure grid references; Time zones; Climate zones; Vegetation belts; Biomes; Human geography; World cities; Sustainable manufacturing processes; Relative locations and distances; Transport networks; Settlement hierarchy; Local enquiry; Fieldwork

Art and design

[Tints, Tones and Shades (Y5)] - Colour theory; Colour wheel; Mixing tints, shades and tones; Landscapes. [Taotie] - Taotie motifs; Casting methods; Watercolour

Design and technology

[Moving Mechanisms] - Pneumatic systems; Joining and finishing; Iterative design process; Building pneumatic machine prototypes

Religious education

Judaism Big Idea- How has faith helped people to live their lives and make decisions? Christianity Big Ideas- Has Christmas become more of a cultural tradition rather than as religious celebration?

Physical Education

Hockey Fitness Netball. Dance

Y5 WRM – Autumn (v3.0) **Mathematics**



Mathematics

Block 1: Number – Place value; Block 2: Number – Addition and subtraction; Block 3: Number – Multiplication and Division; Block 4: Number – Fractions



Sow, Grow and Farm **Geography**

Companions

- o Human Reproduction and Ageing **Science**
- o Line, Light and Shadows **Art and design**
- o Eat the Seasons **Design and technology**
- o Nature's Art **Art and design**

Planned term

Spring

English- Pathways to Write

Kai and the Monkey King by Joe Todd-Stanton The Darkest Dark by Chris Hadfield

Suggested text

The Secret Garden - Frances Hodgson Burnett

Memorable experience

Allotment visit. [Line, Light and Shadows] - Line up!. [Eat the Seasons] - Seasonality. [Nature's Art] - Working outdoors

Innovate challenge

Market gardeners. [Human Reproduction and Ageing] - Let's investigate focus: Reporting and concluding. [Line, Light and Shadows] - Creating artwork with line, light and shadows. [Eat the Seasons] - Seasonal soups. [Nature's Art] - Creating an installation

Science

Food chains and webs; Life cycles; Plant reproduction; Growing plants; Modern farming. [Human Reproduction and Ageing] - Animal life cycles; Stages and processes; Classifying mammals; Mammalian life cycles; Interpreting scatter graphs; Human life cycle; Human gestation stage; Human juvenile stage; Human adolescent stage; Puberty; Venn diagrams; Interpreting line graphs; Human sexual reproduction; Human ageing; Working scientifically – Observing changes over time, Identifying and classifying, Pattern seeking, Comparative test, Research

History

Dig for Victory

Geography

Land use in the UK; Allotments; Farming in the UK; Maps; Grid references; Climate zones; Physical features of North and South America; Farming in North and South America; Food transportation

Art and design

Still life. [Line, Light and Shadows] - Continuous line drawing; Significant artists – Pablo Picasso and Rembrandt; Shading techniques; Drawing on black paper; Black and white photography. [Nature's Art] - Land art; Natural materials; Relief sculpture; Installations

Design and technology

Seasonality. [Eat the Seasons] - Cooking; Nutrition

Religious education

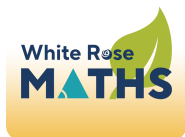
Judaism Big Idea- How do the Ten Commandments help Jews live a good life? Christianity Big Idea- Pentecost

Personal, social and health education

Debating topical issues

Physical Education

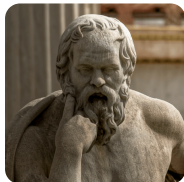
Gymnastics Tag Rugby Football Basketball



Y5 WRM – Spring (v3.0) **Mathematics**

Mathematics

Block 1: Number – Multiplication and division; Block 2: Number – Fractions; Block 3: Number – Decimals and percentages; Block 4: Measurement – Perimeter and area; Block 5 – Statistics



Groundbreaking Greeks **History**

Companions

- Properties and Changes of Materials **Science**
- Mixed Media **Art and design**
- Architecture **Design and technology**
- Expression **Art and design**

Planned term

Summer

English- Pathways to Write

The Brilliant Deep by Kate Messner and Matthew Forsythe Bold and Brave Women from Shakespeare by Shakespeare Birthplace Trust

Suggested text

Who Let the Gods Out? – Maz Evans

Memorable experience

Time team. [Mixed Media] - Paper craft. [Architecture] - Architecture over time. [Expression] - What is Expressionism?

Innovate challenge

The ancient Greeks' greatest idea. [Properties and Changes of Materials] - Let's investigate focus: Planning and carrying out. [Mixed Media] - Creating mixed media artwork. [Architecture] - Building design. [Expression] - Creating an Expressionist-style painting

Science

[Properties and Changes of Materials] - Properties of materials; Thermal conductivity; Measuring temperature; Thermal insulators; Solubility; Heterogeneous and homogeneous mixtures; Sieving; Filtration; Evaporation; Separating unusual mixtures; Reversible and irreversible changes; Innovative materials; Working scientifically – Identifying and classifying, Observing changes over time, Comparative tests, Research, Pattern seeking

History

Ancient Greek periods – Minoan civilisation, Mycenaean civilisation, Dark Age, Archaic period, Classical period, Hellenistic period; Chronology and timelines; Primary and secondary sources; City states; Democracy; Role of men and women; Social hierarchy; Great Athenians; the Acropolis; Greek art, culture, architecture, philosophy, medicine and mathematics; Olympic Games; Alexander the Great; End of the Greek Empire; Legacy

Geography

Interpreting geographical sources

Art and design

[Mixed Media] - Paper crafts; Papermaking; Paper, fabric, mixed media and surreal photo collage; Mixed media artwork. [Expression] - Expressionist art movement; Significant artist – Edvard Munch; Portrait photography; Expression; Self-portraits

Design and technology

[Mixed Media] - Fabric and mixed media collage; Stitching and embellishment. [Architecture] - Architecture over time; Greek architecture; Structural support, stiffness and stability; Computer-aided design; Building design

Religious education

Humanism Big Idea- Why are there so many different views as to how the World came into existence? Christianity Big Idea- The Natural World

Physical Education

Outdoor Education Athletics Cricket/Rounders. Tennis

Y5 WRM – Summer (v3.0) **Mathematics**



Mathematics

Block 1: Geometry – Shape; Block 2: Geometry – Position and direction; Block 3: Number – Decimals; Block 4: Number – Negative numbers; Block 5: Measurement – Converting units; Block 6: Measurement – Volume



Y5 Computing **Computing**

Computing

Staying safe online; Evaluating digital content; Algorithms and debugging; Using data

Staying safe online; Evaluating digital content; Algorithms and debugging; Using data