



St. Gerard's Curriculum Overview Year 5

Computing

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content, that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Geography

Locational knowledge

• locate the world's countries, using maps to focus on South America, concentrating on their environmental regions, key physical and human characteristics, countries, and major cities (RAINFOREST)

• identify the position and significance of the Tropics of Cancer and Capricorn, the Prime/Greenwich Meridian and time zones (including day and night – cc SCIENCE link)

Human and physical geography

• biomes and vegetation belts, rivers (AMAZON)

- human geography, including: types of settlement and land use

Place Knowledge

• understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom and a region within South America (BRITISH FOREST – BOTANICAL GARDENS V TRIBAL AMAZON FOREST)

Geographical skills and fieldwork

Design Technology

Design (JEWELLERY BOXES)

-use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups

-generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design

Make

-select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately

-select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

Evaluate

-investigate and analyse a range of existing products

-evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

-understand how key events and individuals in design and technology have helped shape the world

Technical knowledge

-apply their understanding of how to strengthen, stiffen and reinforce more complex structures

Cooking & Nutrition

FLAPJACKS AND SAVOURY MUFFINS

- understand and apply the principles of a healthy and varied diet
- prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
- understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

Science including working scientifically

- describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- describe the life process of reproduction in some plants and animals
- describe the changes as humans develop to old age.
- compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
- know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating
- give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
- demonstrate that dissolving, mixing and changes of state are reversible changes
- explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.
- describe the movement of the Earth, and other planets, relative to the Sun in the solar system
- describe the movement of the Moon relative to the Earth
- describe the Sun, Earth and Moon as approximately spherical bodies
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.
- explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- identify the effects of air resistance, water resistance and friction, that act between moving surfaces
- recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

PSHE

- Know how emotions and bodies change as they approach puberty and how to deal with their feelings towards themselves, their families and other in a positive way.
- Recognise the range of jobs that people do and how to build their skills for the future
- Know how to look after their money and the benefits of saving
- Recognise the consequences of bullying
- Appreciate the range of national, religious and ethnic identities in the UK

Art (LICHENSTEIN & SEEING THE LIGHT)

- to create sketch books to record their observations and use them to review and revisit ideas
- to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay] about great artists, architects and designers in history.

History

- a local history study (SPITFIRE including transport comparisons & JEWELLERY QUARTER)
- Ancient Greece – a study of Greek life and achievements and their influence on the western world

Music

- play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression (Charanga, assemblies, productions)
- improvise and compose music for a range of purposes using the inter-related dimensions of music (recorders)
- listen with attention to detail and recall sounds with increasing aural memory
- use and understand staff and other musical notations
- appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians (Dan Callow, MFY, GWA productions)
- develop an understanding of the history of music

Physical Education

- use running, jumping, throwing and catching in isolation and in combination
- play competitive games, modified where appropriate and apply basic principles suitable for attacking and defending
- develop flexibility, strength, technique, control and balance
- perform dances using a range of movement patterns
- take part in outdoor and adventurous activity challenges both individually and within a team
- compare their performances with previous ones and demonstrate improvement to achieve their personal best.

Dance, badminton, volleyball, gymnastics, OAA, hockey, football, rounders & athletics.

Modern Foreign Languages

- Understand main points when listening to a longer text
- Understand opinions
- Hold a conversation, ask and answer questions, give opinions
- Read and translate texts
- Use a dictionary to find verbs in the infinitive
- Extend sentences using conjunctions, comparatives and quantifiers

Religious Education

Advent, Christmas, Lent, Holy week and Easter are taught to every class each year.

- Creation
- Miracles and Sacrament of the sick
- Baptism
- Parables and sayings of Jesus
- Pentecost
- The work of the Apostles
- Marriage and Holy orders