

Knowledge Organiser

Year 5

St Mary's Swanage



Spring Term 2023



Art Y5 Spring Term

3D and Painting

National Curriculum Aims
• Produce creative work
• Become proficient in drawing and painting
• Evaluate and analyse
• Know about great artists.

Prior Knowledge:

3D:

- Know how to use shape, form, model and construct from imagination
- Know how to use surface patterns / textures.

Drawing (face)

- Know how to use proportion to draw human figure in more detail.

Collage:

- Know how to use the technique of overlaying - building up layers on the surface/colour mixes

Vocabulary

depth
 structure
 intention
 prototype
 focal points
 complementary
 batik
 replicate
 tie-dye
 contrast

tonal

deconstruct
 coiling
 tessellation
 montage
 ceramic
 element
 influential
 installation
 annotate

tactile

Key Knowledge:

3D:

- Know how to shape, form, model and join with confidence.
- Know how to work directly from observation with confidence. Know how to use appropriate language

Drawing (face)

- Know how to draw the layout of the face and figure in proportion and with detail.

Collage:

- Know how to use the techniques of folding, repeating and overlapping with a variety of different collage mediums



Computing Y5 Spring Term

Data and Information - Flat-file databases

Prior Knowledge:

Data logging: Recognising how and why data is collected over time, before using data loggers to carry out an investigation.

Key Knowledge

Flat-file databases:

- I know that a database exists on a computer and its purpose is to organise data so information can be searched and sorted.
- Know the difference between an AND and OR search.
- Know the advantages of creating a graph using a computer.
- To know how to answer questions through the use of a database.

National Curriculum Aims

- Understand computer science.
- Analyse problems and write computer programs to solve them.
- Evaluate information technology.
- Will be a responsible, competent and creative user of ICT.

Vocabulary

record
Field
Database
Grouping
sorting
Unplugged
methods
Chart
parameters

DT Y5 Spring Term

Frame Structures

National Curriculum Aims

- Develop creative, technical and practical expertise.
- Design and make products for a range of users.
- Evaluate my designs.
- Understand and apply the principles of nutrition and learn how to cook.

Prior Knowledge:

- Experience of using measuring, marking out, cutting, joining, shaping and finishing techniques with construction materials.
- Basic understanding of what structures are and how they can be made stronger, stiffer and more stable.

Key Knowledge

- Understand how to strengthen, stiffen and reinforce 3-D frameworks.
- Know and use technical vocabulary relevant to the project.

Vocabulary

frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent design brief, design specification, prototype, annotated sketch, purpose, user, innovation, research, functional

English Y5 Spring Term

National Curriculum Aim

Promote high standards of language and literacy by equipping pupils with a strong command of the spoken and written word, and to develop their love of literature through widespread reading for enjoyment.

Coming Soon

Geography Y5 Spring Term

Rivers

Prior Knowledge:

Amazon topic (year 3)

National Curriculum Aims

Develop knowledge of globally significant places.

Understand key physical and human geographical features of the world.

Carry out a range of fieldwork

Interpret information from a range of sources.

Key Knowledge

- the key elements and features of a river;
- the key elements of the water cycle;
- the names of – and key information on – the world's main rivers;
- basic ideas about flood management;
- interpret and explain key information on rivers;
- evaluate a range of possible flood prevention measures;
- use globes, atlases and maps to locate the world's principal rivers, rainforests (and other biomes),

Vocabulary

Egypt, Ethiopia, South Sudan, Sudan, Uganda, United States of America, confluence, flood plain, meander, mouth, source, tributary, altitude, estuary, lower course, middle course, upper course,

Maths Y5 Spring Term

National Curriculum Aims

Become fluent in the fundamentals of mathematics

Reason mathematically

Solve Problems

Termly Overview

1	Fractions	Adding and subtracting fractions.
2	Decimals	Ordering, adding and subtracting decimals.
3	Percentages	Writing and finding percentages.
4	Geometry	Shapes and angles.

MFL Y5 Spring Term

Desayuno en el café (Breakfast at the Café)

Prior Knowledge:

- Understand that all nouns in Spanish are either masculine or feminine
- Read, write and say the masculine and feminine forms of the indefinite article: “a” (un/una)
- Role play: ordering ice-creams
- Role play: buying vegetables
- Know greetings, please and thank you

Key Knowledge

- Order from a selection of foods and drinks on a menu
- Order a Spanish breakfast
- Order typical Spanish snacks
- Ask for the bill
- Remember to use greetings, please and thank you
- Learn about aspects of Spanish culture
- Know key information about *La Fiesta de San Fermín* Festival

National Curriculum Aims

Understand spoken and written language.

Speak with accurate pronunciation and intonation.

Write for different audiences.

Discover and develop and. Appreciateion of. The language studied.

Vocabulary

desayuno en el café - breakfast at the café

¿Qué quieres? - What would you like?

Quiero... - I want...

por favor – please

thank you – gracias

un zumo – juice

un café - coffee

un té - a tea

un té con leche – a tea with milk

un chocolate caliente – a hot chocolate

un croissant – a croissant

la mantequilla – butter

pan – bread

la mermelada – jam

un bizcocho – sponge cake

cereal – cereal

un trozo de tortilla – a piece of tortilla

churros – long Spanish doughnuts

tapas – tapas (Spanish starters)

patatas fritas – chips

un sándwich - a sandwich

una coca-cola – a coke

una limonada con gas – a fizzy lemonade

la cuenta, por favor – the bill, please

MFL Y5 Spring Term

¿Qué fecha es hoy? (What's the date today?)

Prior Knowledge:

- Know numbers 1 – 100
- Ask someone's name, age, about their family and where they live; respond to these questions

Key Knowledge

- Recognise, read, say and spell the twelve months of the year
- Recognise, read, say and spell the days of the week
- Ask what the date is
- How to say the date (including a shorter version)
- Ask somebody when their birthday is

Vocabulary

¿Qué fecha es hoy? - What's the date today?
Hoy es... - Today is...
lunes – Monday
martes – Tuesday
miércoles - Wednesday
jueves – Thursday
viernes – Friday
sábado - Saturday
domingo – Sunday
enero – January
febrero – February
marzo – March
abril – April
mayo – May
junio – June
julio – July
agosto – August
septiembre – September
octubre – October
noviembre – November
diciembre – December

National Curriculum Aims

Understand spoken and written language.
Speak with accurate pronunciation and intonation.
Write for different audiences.
Discover and develop and. Appreciateion of. The language studied.

Vocabulary

veintiuno – 21
veintidós - 22
veintitrés - 23
venticuatro – 24
veinticinco – 25
veintiséis - 26
veintisiete – 27
veintiocho – 28
vientinueve – 29
treinta – 30
treinta y uno – 31

Music Y5 Spring Term

Make you feel my love

The fresh prince of Bel- Air

National Curriculum Aims
Perform, listen to and evaluate a range of music.
Learn to sing, create and compose music and play an instrument.
Understand how music is created and use appropriate notation.

Prior Knowledge:

Performing

- Know how to perform a simple part including rests.
- Know how to improvise using repeated patterns.
- Know how to maintain a part in a group showing awareness of others.
- Memorise songs and perform with accuracy.

Composing

- Know how to use basic rhythmic notation to transcribe ideas.
- Know how to notate a composition using basic notation and use to record performance.
- Explore and compose a short song (lyrics and melody) and perform

Key Knowledge

- Performing
- Know how to sing or play using correct phrasing and demonstrate understanding of how to add expression.
- Know how to hold a part in a group
- Know how to perform music using a variety of structural forms
- Know how to perform by ear and using simple notations

Composing

- Know how to use basic rhythmic notation to transcribe ideas.
- Know how to notate a composition using basic notation and use to record a performance.
- Know how to compose a short song (lyrics and melody) and perform.

Listening and appraising

- Know how to refine and improve compositions and performances; and suggest improvements to the work of others.
- Know how to evaluate work using appropriate musical vocabulary
- Know how to use standard musical notation to record ideas.

Vocabulary

Ballad, verse, chorus, interlude, tag ending, strings, piano, guitar, bass, drums, melody, compose, improvise, cover, pulse, rhythm, pitch, tempo, dynamics, timbre, texture, structure

Old-school Hip Hop, Rap, riff, synthesizer, deck, backing loops, Funk, scratching, unison

PE Y5 Spring Term

Netball Hockey Handball

National Curriculum Aims

Develop competence in a broad range of physical activities.

Be physically active for sustained periods of time.

Engage in competitive sports and activities.

Lead healthy, active lives.

Prior Knowledge:

Netball

- Pupils will be able to apply a secure understanding of passing, moving and shooting in order to score points against another team.
- Pupils will demonstrate a growing understanding of the difference between attack and defence by making effective decisions and creating simple tactics.

Hockey

- Pupils will be able to apply a secure understanding of passing, moving and dribbling and develop their skills of blocking and tackling, to prevent attacks

Handball

- Pupils will be able to apply a secure understanding of passing, moving and shooting in order to score points against another team

Key Knowledge

Netball

- Pupils will be able to pass, move and shoot accurately and consistently.
- begin to understand the different positions, applying their role effectively within the game.

Hockey

- Pupils will be able to pass, move, dribble, shoot, tackle and block accurately and consistently, switching fluidly between attack and defence as possession changes.

Handball

- Pupils will be able to pass, move and shoot accurately and consistently. They will be able to switch fluidly between attack and defence as possession changes.

Vocabulary

Netball

Marking

Hockey

Man marking, goal side,

Handball

Goal side, man to man marking.

PHSE/RSE Y5 Spring Term

Valuing Difference

Prior Knowledge:

- I know the benefits of living in a diverse society
- I know that discrimination is an injustice.
- I know that online information is not always true or accurate.
- I know that social media pressurises people's life choices.

Key Knowledge

- I know the benefits of living in a diverse society
- I know that discrimination is an injustice.
- I know that online information is not always true or accurate.
- I know that social media pressurises people's life choices.

Vocabulary

Friendship, discrimination, prejudice, exclusion, diverse, multicultural society, sexual orientation, gender identity, gender expression, embarrassed



PHSE/RSE Y5 Spring Term

Me and My Relationships

Prior Knowledge:

- I know that my thoughts, feelings, and actions impact one another.
- I know strategies to resolve conflict in an assertive, calm, and fair manner.
- I know what things make an unhealthy relationship and who I can talk to if I need help.
- I know what bodily autonomy is and how to say no.

Key Knowledge

- I know that my thoughts, feelings, and actions impact one another.
- I know strategies to resolve conflict in an assertive, calm, and fair manner.
- I know what things make an unhealthy relationship and who I can talk to if I need help.
- I know what bodily autonomy is and how to say no.

Vocabulary

Collaboration, negotiation, conflict, insensitive, sensitive, body language, nonverbal communication, Assertiveness, consent, bodily autonomy



RE Y5 Spring Term

Come and See

Themes	Topic	Title	Content
Local Church	Community	Mission	Continuing Jesus' mission is diocese [ecumenism].
Eucharist	Relating	Memorial sacrifice	The Eucharist the living memorial of Jesus' sacrifice.
Lent/Easter	Growing	Sacrifice	Lent a time of aligning with the sacrifice already made by Jesus.

Science Y5 Spring

Earth & Space

Prior Knowledge:

- Observe changes across the four seasons. (Y1 - Seasonal changes)
- Observe and describe weather associated with the seasons and how day length varies. (Y1 - Seasonal changes)

As a Scientist I will be:

Develop scientific knowledge conceptual understanding

Making Observations

Engaging in Practical Activities

Recording and Presenting Evidence

Evaluating and raising questions

Communicating Findings

Key Knowledge

- 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.

Vocabulary

Earth, Sun, Moon, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), spherical, solar system, rotates, star, orbit, planets

Science Y5 Spring

Forces

As a Scientist I will be:

Develop scientific knowledge conceptual understanding

Making Observations

Engaging in Practical Activities

Recording and Presenting Evidence

Evaluating and raising questions

Communicating Findings

Prior Knowledge:

- Compare how things move on different surfaces. (Y3 - Forces and magnets)
- Notice that some forces need contact between two objects, but magnetic forces can act at a distance. (Y3 - Forces and magnets)
- Observe how magnets attract or repel each other and attract some materials and not others. (Y3 - Forces and magnets)
- Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials. (Y3 - Forces and magnets)
- Describe magnets as having two poles. (Y3 - Forces and magnets)
- Predict whether two magnets will attract or repel each other, depending on which poles are facing. (Y3 - Forces and magnets)

Key Knowledge

- 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.

Vocabulary

Force, gravity, Earth, air resistance, water resistance, friction, mechanisms, simple machines, levers, pulleys, gears