

	Science	CCL	Discrete Units	Computing	Music	P.E	R.E	RESPECT
Autumn 1	<p>Living things & Evolution and Inheritance</p> <p>Study of historical ways of classifying animals (Aristotle, Linnaeus, Harding-Whittaker)</p> <p>Study of different types of micro-organism.</p> <p>Study and organization of human life cycle with comparison to other types of animal.</p> <p>In depth study of Green Turtle's life cycle.</p> <p>Study of features that help a range of animals survive in their environment.</p> <p>Study of fossilization.</p> <p>Study of Charles Darwin and his contribution to science.</p> <p>Study of classification of plants and different features that help plants survive.</p> <p>Prediction of future adaptations of humans to prove understanding of concepts.</p> <p>- recognise that living things</p>	<p>What a Wonderful World (Geography)</p> <p>Identification of key features of North/South America, Europe – particularly countries and capitals.</p> <p>Continents and the composition of biomes / ecological zones within these including deserts and rainforests, linking to the position of the continent relative to the Equator and Tropics of Cancer and Capricorn.</p> <p>Identification of key landmarks, counties and cities in UK using maps and a more in-depth study of the local area of Brighouse using a range of maps (including OS with study of symbols).</p> <p>Learn how to use four and six figure grid references and apply to OS maps.</p>	<p>Buildings of Europe (Art)</p> <p>- Chn will learn to understand and critically analyse artists' work.</p> <p>- How to sketch in the style of Stephanie Calvet</p> <p>- Learn, investigate and use George Seurat's technique of pointillism</p> <p>- Use oil pastels to recreate a Van Gogh picture</p> <p>- Develop an understanding of using different artist's techniques based on the theme: 'Buildings of Europe'</p> <p>French</p> <p>- Chn will learn how to describe their family.</p> <p>- Chn will be able to apply opinions and use adjectives to describe</p>	<p>E-safety/ Computer Awareness</p> <p>- Chn will learn how to use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p> <p>Word processing Skills</p> <p>- Chn will recap word processing skills such as: changing the colour, size and font of a text; print documents and insert an image/word art.</p>	<p>Charanga</p> <p>- Study of the Motown hit 'Dancing in the Street' including its brief history.</p> <p>- Chn will listen to the piece and appraise, talking through their opinions on the music, compare to other pieces of music they have listened to and identify which musical instruments can be heard.</p> <p>- Chn will learn to clap beats and rhythms</p> <p>- Chn will learn key facts about Benjamin Britten and listen to some of his compositions.</p>	<p>Gymnastics</p> <p><i>At the local gymnasium, chn will learn to:</i></p> <p>Control movement and techniques.</p> <p>Repeat a given sequence with control and timing.</p> <p>Create a sequence of linked moves which are in time with others.</p> <p>Make extended sequences.</p> <p>Swimming</p> <p>Pupils will learn to swim confidently and proficiently over an increasing distance and use a range of strokes effectively.</p>	<p>How do Sikhs show commitment?</p> <p>- Discussion of values and why they are important.</p> <p>- Study of how Sikhs show commitment to their faith through religious practice, teachings and rites of passage.</p> <p>- Develop a statement of their own beliefs using the Mool Mantar as an example.</p> <p>- Study of what symbols are important to Sikhs and how these symbols show commitment.</p> <p>- Learn about what difference to daily life do Sikh beliefs and teaching make.</p> <p>- Study on how Sikhs show commitment by putting faith into action.</p>	<p>Families and people who care for me</p> <p>- Children will learn that all families are different, that marriage represents a legal commitment and how to recognize if family relationships are making them feel unhappy.</p> <p>Respectful Relationships</p> <p>- Children will learn practical steps to help improve and support family relationship, about different types of bullying and the importance of permission-seeking.</p>

	produce offspring of the same kind, but normally offspring vary and are not identical to their parents.		their family members.					
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Autumn 2

Landmarks presentation:

- Chn use PowerPoint to create an interactive presentation on the key human and physical features of their chosen country (Germany or France), making independent choices about the media platform and needs of the audience.
- Chn use music software to create and edit music, including multi-tracking to coincide with their presentation.

Football:

- Use drills and short activities to help children understand how to pass and control the ball with increasing levels of skill
- Use drills and short activities to help children understand how to dribble the ball with increasing levels of skill
- Introduction to shooting techniques and the difference between this and passing techniques.

Online Relationships:

- Children will learn that the same principles apply to online relationships as they do to face-to-face relationships and the rules of keeping safe online.

Being Safe:

- Children will learn how to report feelings of being unsafe, learn how to ask for advice, learn where to report concerns and where to receive advice.

Electricity:

- Study of electrical circuits and symbols of key components.
- Study of circuit diagrams and how these are created.
- Learn to associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
- Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.

Local History (History)

- Study of differences between before Industrial Revolution and end of Victorian period.
- Study different inventors and the importance of their inventions.
- Study how the IR changed the local area with a study of local geography (namely Brighouse).
- Study of life in a Yorkshire and Lancashire cotton mill from a child's perspective.
- Look at the mill owner's viewpoint and that of a child at work.
- Study the geography of the Luddite rebellion.
- Study of Luddite sources, comparison and rating in terms of reliability.

Gears:

- Understand, label and define 'gear trains', 'gearing up' and 'gearing down'
- Select and join components and gears to create a moving mechanical model
- Follow instructions independently to create a mechanical model
- Select and join components to create a mechanical model.

Spreadsheets:

- Chn begin to use spreadsheets to collect and store information.
- Chn create tables to carefully organize data.
- Chn use spreadsheets to create basic bar graphs, line graphs and pie charts.
- Follow instructions independently to gain confidence with using spreadsheets.

Composer of the Year

- Chn will learn key facts about Benjamin Britten and listen to some of his compositions.

Skipping:

- Children will learn a new skill using both individual and group skipping ropes.
- They will learn different techniques to skip over the rope as well as improve their fitness, strength and dexterity whilst skipping.

How do Jews remember Kings and Prophets?

- Learn why and how Shabbat is celebrated in Judaism.
- Study why King David is viewed as a key figure in Jewish history.
- Read and decipher the meaning of some Psalms which are important to the Jewish faith.
- Investigate what a prophet is and how people follow their messages.

Online Relationships

- Children have learned how information and data is shared and used online.
- Internet Safety and Harms**
- Children will learn the benefits of using the internet but also that it can sometimes be a negative space which can affect a person's mental health.
 - Children will learn how to consider the effect of their online actions on others, recognise and display respectful behaviour online and the importance of keeping personal information private.
 - Children will learn that social media sites have age restrictions and regulations, how to recognise what is appropriate to share online and how to report inappropriate online content or contact

Light:

- Study into light and how it travels in straight lines and how shadows are therefore formed.
- Investigation into shadows and the effect of distance on the shadow.
- Study of the eye and how we see accompanied by labelling of components of eye.

Weaving (DT):

- Understand different processes used to make clothing (sheering, cleaning, carding, combining and removing knots).
- Children to create a loom using their design criteria.
- Children to label key features and weaving techniques used in their design.

Bloggng:

- Within this unit, chn will learn to:*
- Identify the purpose of writing a blog.
 - Identify and use the key features needed to create a successful blog.
 - How to create and write a blog.
 - Consider the effect upon the audience of changing the visual properties of a blog.
 - Understand how to contribute to an existing blog.
 - Understand how and why posts are approved by the teacher.
 - Peer-assess other blogs against the success criteria.

Charanga:

- Study of the Pop hit 'Happy' by Pharrell Williams including its brief history.
- Chn will listen to the piece and appraise, talking through their opinions on the music, compare to other pieces of music they have listened to and identify which musical instruments can be heard.
- Chn will learn to clap beats and rhythms
- Chn will learn key facts about Benjamin Britten and listen to some of his compositions.

Dance:

- Haka:**
- Study of existing haka and practice moves.
 - Create own moves based on key principles of controlled fierceness and unity.
 - Create own haka using mixture of moves from previous haka and personal haka moves.

How do Jews remember Kings and Prophets?

- Learn how the festival of Purim is celebrated.
- Learn how the Ten Commandments affect people's lives today.
- Study the festival of Hannukah and why it is important to the Jewish community.
- Learn how Jews contribute to the world today.

What do Christians believe about Jesus' death & resurrection?

- Learn the significance of Palm Sunday.
- Explore the events surrounding the Last Supper and link these to Christian traditions.
- Explore the significance of the crucifixion and why it remains important to Christians today.
- Learn the meaning of sacrifice and how this relates to Jesus' death.
- Learn how Christians celebrate the Holy Week.

Respectful Relationships:

- Within this unit, children will learn:
- what a stereotype is and how stereotypes can be unfair.
 - to differentiate between prejudice and discrimination
 - how to recognise acts of discrimination
 - strategies to safely respond to and challenge discrimination
 - how and why images online might be altered or faked and how to recognise this
 - the reasons why some media and online content is not appropriate for children

Human Body:

- Study and revision of major organs and particularly the function of the heart in circulation.
- Study of the blood, particularly the different components of blood (red and white blood cells, platelets, plasma)
- Experiment into the impact exercise has on pulse.
- Study into the importance of diet on the body and major organs.
- Study of the digestive system.
- Study of smoking, drugs and alcohol and how these affect the body accompanied by creation of leaflets and posters.

Ancient Civilizations (History)

- Study of source to gather basic information regarding the Shang Dynasty.
- Location of Shang Dynasty geographically and surrounding features of note and discussion of key moments in its history.
- Use of secondary sources to uncover information about daily Shang life.
- Study into 'Dragon bones' of recent Chinese medicine and Shang mystical beliefs.
- Study of Shang burial customs and what these tell us about a key Shang figure (Fu Hao)

French:

- how to describe their physical appearance.
- identity adjectives and apply rules about word order and gendered nouns in French, orally and in writing.
- apply rules about adjectival agreement and justify their choices. By the end of the unit, children will be applying their vocabulary and grammatical knowledge to describing others.

Computing: Coding

- Using functions to direct an object in a program.
- Chn learn how to use and simplify functions by removing excess code.
- Chn learn how to include interactivity in their programs.
- Chn learn how to follow a flowchart to debug programs.

Charanga:

- Listen to the individual instrument sounds first and then try to identify which ones you can hear in the extract. What message do you think the song writer was trying to express?
- Reflect on how this message is reflected in the words and in the music itself?
- Study of the hit 'You've Got A Friend by Carole King.' including its brief history.
- Chn will listen to the piece and appraise, talking through their opinions on the music, compare to other pieces of music they have listened to and identify which musical instruments can be heard.
- Chn will learn to clap beats and rhythms and learn the signs.

Rounders:

- Study of key skills of throwing, catching and batting in rounders.
 - Learn the rules of playing a team game with batters and fielders.
 - Learn the tactics of playing a game of rounders.
- Gymnastics:
At the local gymnasium, chn will learn to:
- Control movement and techniques.
 - Repeat a given sequence with control and timing.
 - Create a sequence of linked moves which are in time with others.
 - Make extended sequences.

How does growing up bring responsibilities and commitments?

- Learn the rights and responsibilities that come with being a child and an adult.
- Learn what rites of passage mark transition to adulthood.
- Study why rites of passage are important to many religious believers.
- Learn the rites of passage ceremonies for: Judaism, Sikhism and Christianity.
- Learn the meaning of a promise; which promises are made within the different rites of passage ceremonies and what happens when promises are broken.

RESPECT:

- Physical health & Mental wellbeing
- how to protect personal info online & strategies for dealing with requests for personal info or images of themselves
 - that images or text can be quickly shared with others & what the impact of this might be
 - how to report the misuse of personal information
 - why age **limits** are important and how they help people make safe decisions about what to watch, use or play
 - What affects mental health and ways to take care of it; and how negative experiences such as being bullied or feeling lonely can affect mental wellbeing
 - positive strategies for managing feelings
 - strategies to manage time spent online and foster positive habits e.g. switching phone off at night

Science:

- Experiment into the impact exercise has on pulse.
- Study into the importance of diet on the body and major organs.
- Study of the digestive system.
- Study of smoking, drugs and alcohol and how these affect the body accompanied by creation of leaflets and posters.

French:

- how to describe their physical appearance.
- identity adjectives and apply rules about word order and gendered nouns in French, orally and in writing.
- apply rules about adjectival agreement and justify their choices. By the end of the unit, children will be applying their vocabulary and grammatical knowledge to describing others.

DT- Maquettes:

- Creation of design criteria by studying other trophies and their features.
- Comprehensive planning of maquette with 'thumb-nail' plans, exploded diagram and 'market research' to inform design choices.
- Children study health and safety concerns and make maquettes using wood, wire mesh, Modroc, saws, drills.
- Evaluation of final product once complete and decorated.

DT (Cooking)-

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

Computing:

- Children will create and programme a mechanical lego robot to move in a variety of different ways according to user input.
- Children will learn about and define sensors and motors and learn about how these power and control the robot.

Gymnastics:

At the local gymnasium, chn will learn to:

- Control movement and techniques.
- Repeat a given sequence with control and timing.
- Create a sequence of linked moves which are in time with others.
- Make extended sequences.

Athletics:

- Pupils will develop flexibility, strength, technique, control and balance through long and triple jump, all throwing techniques and hurdling technique.

Swimming

- Pupils will learn to swim confidently and proficiently over an increasing distance and use a range of strokes effectively.

How does growing up bring responsibilities and commitments ?

- Learn the rites of passage ceremonies for: Judaism, Sikhism and Christianity.
- Learn the meaning of a promise; which promises are made within the different rites of passage ceremonies and what happens when promises are broken.

RESPECT:

- why social media, some computer games and online gaming are age restricted.
- practical strategies that can help to manage times of change and transition
- what sexual intercourse is and how it can be one part of an intimate relationship between consenting adults
- how pregnancy occurs and that pregnancy can be prevented with contraception
- about the responsibilities of being a parent or carer and how having a baby changes someone's life