Maths Y2

Addition and Subtraction and Shape

National Curriculum Links

Pupils should be taught to; (Number -Addition and Subtraction)

- Recall and use addition and subtraction facts to 10 and then 20 fluently, and derive and use related facts up to 100.
- Add and subtract numbers using concrete objects, pictorial representations and mentally, including: two one-digit numbers, a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers.
- Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.
- Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods.
- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

Geometry-Shape

- Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.
- Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.
- Identify 2-D shapes on the surface of 3-D shapes (for example, a circle on a cylinder and a triangle on a pyramid).
- Compare and sort common 2-D and 3-D shapes and everyday objects.

Small steps overview

Addition & Subtraction
Bonds to 10
Fact families-addition and subtraction bonds within 10
Related facts
Bonds to 100 (tens)
Add and subtract 1s
Add by making 10
Add 3 1-digit numbers
Add to the next 10
Add across a 10
Subtract across 10
Subtract from a 10
Subtract a 1-digit number from a 2-digit number (across a 10)
10 more, 10 less
Add and subtract 10s
Add two 2-digit numbers (not across a 10)
Add two 2-digit numbers (across a 10)
Subtract two 2-digit numbers (not across a 10)
Subtract two 2-digit numbers (across a 10)
Mixed addition and subtraction
Compare number sentences
Missing number problems

Small steps overview Shape Recognise 2-D and 3-D shapes Count sides on 2D shapes Count vertices on 2D shapes Draw 2-D shapes Lines of symmetry on shapes Use lines of symmetry to complete shapes Sort 2-D shapes Count faces on 3-D shapes Count edges on 3-D shapes Count vertices on 3-D shapes Sort 3-D shapes Make patterns with 2-D and 3-D shapes



<u>Maths Y1</u>

Addition & Subtraction and Shape

National Curriculum Links

Pupils should be taught to;

Number -Addition & Subtraction within 10

- Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.
- Represent and use number bonds and related subtraction facts (within 20).
- Add and subtract one-digit (and two-digit numbers to 20), including zero.
- Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7= -9.
 Geometry -Shape

Recognise and name common 2-D and 3-D shapes, including:

- 2-D shapes (for example rectangles(including squares) circles and triangles)
- 3-D shapes (for example, cuboids (including cubes), pyramids and spheres).

Small steps overview

Addition & Subtraction within 10 Introduce Parts and Wholes Part Whole Model Write Number Sentences Fact Families-Addition Facts Number bonds within 10 Systematic number bonds within 10 Number bonds to 10 Addition-add together Addition-add more Addition problems Find a part Subtraction-find a part Fact families-the eight facts Subtraction-take away/cross out (How many left?) Subtraction on a number line Add or subtract 1 or 2

Small steps overview

Shape Recognise and name 3-D shapes Sort 3-D shapes Recognise and name 2-D shapes Sort 2-D shapes Patterns with 2-D and 3-D shapes

Science

<u>Plants</u>

National Curriculum Links

Pupils should be taught to:

- Observe and describe how seeds and bulbs grow into mature plants.
- Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.

Learning Outcomes

Children will:

- Identify and name some common wild and garden plants.
- Compare and contrast seeds and bulbs.
- Name parts of a plant.
- Observe how different plants grow in the school environment (over the course of the year).
- Record the growth of plants as they change over time.
- Investigate the requirements for germination.
- Investigate what plants need to grow and stay healthy.
- Be introduced to the process of reproduction in plants.

Sparkles and Stars

Art & Design	(Sparkles and Stars)	National Curriculum Links Pupils should be taught:
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ļ	(possible texts)
	Non-fiction texts on Guy
	Fawkes and The
,	Gunpowder Plot.
1	Cultural Celebrations;
ļ	Rama and Sita and The
	Story of Diwali, <i>Rama</i>
,	and the Demon King by
	Jessica Souhami. <i>Joy</i>
	to the World! Christmas
	Stories from Around the
	Globe by Kate DePalma.
1	Changing seasons;
	Tree: Seasons Come,
	Seasons Go by Patricia
	Hegarty and Britta
•	Teckentrup. <i>Stick Man</i>
ļ	by Julia Donaldson, Owl
ļ	Babies by Martin
1	Waddell.

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to develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form and space about the work of a range of artists, craft makers and designers, describing the differences and similarities between different practices and disciplines, and making links to their own work Learning Outcomes Children will: • Explore the work of Stephen Wiltshire and discuss his use of line and tone. • Work with various drawing tools, collage materials and digital art packages to create artwork inspired by fireworks and the festivals they are learning about (e.g. the Houses of Parliament, menorahs, diwa lamps, Ravana, Hanuman). Line • Draw in line from observation, recording shapes and positioning all marks/features with some care and control. o Begin to explore different textures: hatching, scribbling, stippling and blending (Y2 will also select particular techniques for a given purpose). \circ Explore tone using different grades of pencil/pastel/chalk. • Use line (Y2 will also use tone) to represent objects seen, remembered or imagined (e.g. menorahs, diwa lamps). • Observe and draw landscapes and buildings (e.g. the Houses of Parliament; Y2 will also describe the layout and features). Collage o Gather and sort materials needed for their collage. • Cut and tear paper and card in preparation for their collage. o Fold, crumple, tear and overlap paper to create different effects. o Create and arrange shapes by tearing and cutting. Year 2 • Create collaged pieces of art (e.g. fireworks, Rangoli patterns, Menorahs) Autumn 2 • Make Christmas cards and decorations, and calendars in preparation for New Year.

to use a range of materials creatively to design and make products

to use drawing...to develop and share their ideas, experiences and imagination



Geography

Around the World (The Oceans & Continents: The UK)

National Curriculum Links:

- Use world maps, atlases and globes to identify the United Kingdom and its countries, as well as the countries, continents and oceans studied at this key stage.
- Use simple compass directions (north, south, east and west) and locational and directional language [for example, near and far, left and right], to describe the location of features and routes on a map.

Learning Outcomes

Children will:

- Use maps with growing confidence.
- Use maps to locate the United Kingdom, its countries and their capital cities.
- Use maps to locate the continents of the world.
- Research a continent, using the information to create 'continent boxes' and a fact file (countries, famous physical features, famous landmarks etc).
- Use maps to locate the oceans of the world (Pacific, Atlantic, Arctic, Southern and Indian) as well as some seas (North Sea, English Channel).
- Use positional language and the four points of the compass.

Music

Little Angel Gets Her Wings (Christmas Production)

National Curriculum Links

Use their voices expressively and creatively when singing and speaking chants and rhymes.

Listen with concentration and understanding to a range of high-quality live and recorded music.

Learning Outcomes

Sing songs in preparation for our school production and show expression through facial expression and movement.

Identifying, through listening, clapping back, movement and voice, the pulse and rhythm.

Play simple rhythms using untuned instruments to accompany the school production.

Play simple melodies on tuned instruments (glockenspiels and boom whackers) to accompany the Christmas production (up to three notes Y1, up to four notes Y2).

With support, create simple melodies to accompany the Christmas production (up to three notes Y1, up to four notes Y2).

Begin to incorporate and understand a musical 'rest'.

Discovery RE

Festivals and Celebrations

- To know why religious people have festivals and
- recognise that there are many ways to celebrate.
- Find out about and explore the festivals of:
 - Diwali
 - To know that Diwali is a happy occasion celebrated by Hindus.
 - To know that Diwali involves special events, artefacts and traditions.
 - Hannukah
 - To know that Hannukah involves special events, artefacts and traditions.
 - Advent and Christmas
- To know that Christmas is important to Christians ٠ because it celebrates the birth of Jesus.
- To know that Christmas is a special, happy time of the • year involving special stories, events, artefacts and traditions.
- To know that the bible is the source for information about Jesus' birth

Learning Outcomes Children will:

- Listen to and retell stories related to these celebrations and festivals.
- Learn about the traditions involved through participating in creative activities.

Northumberland Agreed Syllabus Theme: Christmas Religion: Christianity Key Question: What gifts might Christians in my town have given Jesus if he had been born here rather than in Bethlehem?

Learning Outcomes

Children will:

- Talk about a gift that is special to them.
- Explain how they felt when they received it.
- Retell the Christmas story, including which gifts were given to Jesus.
- Suggest gifts they might have given Jesus.
- Suggest gifts that Christians might choose for Jesus.
- Start to discuss why Jesus is special to Christians (Incarnation).

P.S.H.E.

Celebrating Differences

Pupils should be taught to:

- Understand that sometimes people make assumptions (stereotypes).
- Understand that bullying is sometimes about difference.
- Recognise what is right and wrong.
- Stand up for themselves.
- Understand that it is OK to be different from other people and still be friends.
- Understand that differences make us special and unique.

Learning Outcomes

Children will:

- Discuss similarities and differences.
- Look at ways to include others when working and playing.
- Learn how to help if someone is being bullied.
- Look at different ways to solve problems.
- Learn the importance of using kind words.
- Know how to give and receive compliments.
- Participate in Anti-Bullying Week.

Firework safety: Watch a firework video and learn the Firework Code.

Physical Education

Fundamental Movements

Modified Team Games with Newcastle United Foundation

National Curriculum Links

Pupils should be taught to:

- Master basic movements including running, jumping, throwing and catching, as well as developing balance, agility and coordination, and begin to apply these in a range of activities.
- Participate in team games, developing simple tactics for attacking and defending. Learning Outcomes Children will:

Hold a balance on 1, 2, 3 and 4 points.

Move in a variety of ways (hopping, walking, skipping, sprint running, leaping etc). Learn and practise different throwing and catching techniques with large and small equipment (underarm, overarm, chest pass, bounce and catch, two-hand catch, onehand catch etc).

Apply these movements in a range of games and activities.

Newcastle Foundation will lead PE sessions focussing on applying fundamental movements in a range of team games and beginning to develop simple tactics.

Computing Digital Art (Sparkles and Stars)

National Curriculum Links

- Use technology purposefully to create, organise, store, manipulate and retrieve digital content
- Recognise common uses of information technology beyond school
- 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

Learning Outcomes Children will:

• Use art packages to create firework pictures and Rangoli patterns. Use art packages to create calendars. Learn about SID's Top Tips for staying safe online through the story of Lee & Kim.

Mastering English Opportunities for children to develop deep learning: • Applying new topic vocabulary when writing across the curriculum	<u>History</u> <u>National Curriculum Links</u> • The life of Guy Fawkes as a significant individual from the past • The events that led up to the gunpowder plot • Where this period in history fits in relation to the life of Grace Darling and the	Philosophy for Children PSHE • What is bullying? (Stimulus – Jerry's Cousin & "Bird on the Wire")
 Using appropriate features when writing in different styles across topic areas Using their speech and language skills to question, discuss and explain their thinking. Applying learnt grammar and punctuation conventions when writing across the curriculum For example: Questioning and reasoning about predictions in science. 	 present day. Learning Outcomes_Children will: Use books, the internet and information from trusted adults to find out about the life of Guy Fawkes and the events of the gunpowder plot. Discuss the Houses of Parliament. How have they changed over time? Make a creative response to the story that demonstrates the new knowledge acquired. 	Investigation Possibilities Science • Can plants grow in different environments? • Do all plants need the same amount of water?
 Questioning and reasoning about predictions in science. Diary of Guy Fawkes (history). Writing letters from Guy Fawkes and/or Sita. Writing letters to Father Christmas. 	Mastering Maths Opportunities for children to develop deep learning: Science: • Measure and record the growth of plants. • Discuss and compare the time taken for bulbs to grow.	Opportunities for Outdoor Learning Science: • Tree hunt (for deciduous and evergreen trees). • Looking for signs of winter. RE: • Making Rangoli patterns with natural materials.
	 History Placing historical events on a timeline (Guy Fawkes) and for the hall display timeline. RE: Naming and describing shapes when creating Rangoli Patterns. Selecting suitable shapes according to their properties and explain their reasoning. 	