EYFS Curriculum Overview - 2022/2023 - SCIENCE

| Autumn | Spring | Summer |
|----------------------|---------------------|---------------------------|
| The Colour Monster | Winter | Traditional Tales |
| Myself | Arctic and Animals | Kings and Queens |
| Autumn/Harvest | Dinosaurs (Animals) | Transport |
| Hedgehogs | Farm and Animals | Minibeasts (Animals) |
| Bonfire Night | Jungle and Animals | Under the Sea and Animals |
| Owl Babies | Space | Summer/Seaside |
| People who help us + | Healthy Living | Pirates |
| Vets and Pets | Spring | |
| Stickman | | |
| Christmas | | |
| | | |

| RE (Celebrations, Gathering, | RE (Good News, Friends, Our |
|------------------------------|-----------------------------|
| Growing) | World) |
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Autumn Term

| TOPIC | DEVELOPMENT MATTERS OBJECTIVES | KEY FACTS |
|--------|---|---|
| AA 16 | 2 | VOCABULARY |
| Myself | 3 and 4 Year Olds -Talk about what they see, using a wide vocabulary. | My body - parts and senses More difficult parts of the |
| | -Begin to make sense of their own life-story and family's history. -Show interest in different occupations | body - elbow, wrist, ankle, eyebrow and internal - |

-Continue to develop positive attitudes about the differences between people.

-Know that there are different countries in the world and talk about the differences they have experienced or seen in photos

-Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen, or one which is suggested to them.

-Develop their sense of responsibility and membership of a community.

-Become more outgoing with unfamiliar people, in the safe context of their setting. -Show more confidence in new social situations.

-Play with one or more other children, extending and elaborating play ideas.

-Help to find solutions to conflicts and rivalries. For example, accepting that not everyone can be SpiderMan in the game, and suggesting other ideas.

-Increasingly follow rules, understanding why they are important.

-Do not always need an adult to remind them of a rule.

-Develop appropriate ways of being assertive.

-Talk with others to solve conflicts.

-Talk about their feelings using words like 'happy', 'sad', 'angry' or 'worried'.

-Begin to understand how others might be feeling

Children in reception

- Talk about members of their immediate family and community.

-Name and describe people who are familiar to them.

heart, lungs, bones, muscles, brain

My home and family - where do you live and who do you live with

Explaining who is who -eg grandma is mums mum or dads mum, auntie is mums sister or dads sister etc

Learn address and birthdays.

Likes and dislikes - sharing with each other and discovering similarities and differences.

All different All equal - anti bullying

Learning to be part of a classroom

Learning school rules

Following instructions

-Comment on images of familiar situations in the past.

-Understand that some places are special to members of their community.

-Recognise that people have different beliefs and celebrate special times in different ways.

-Recognise some similarities and differences between life in this country and life in other countries.

-See themselves as a valuable individual.

-Build constructive and respectful relationships.

-Express their feelings and consider the feelings of others.

-Show resilience and perseverance in the face of challenge.

-Identify and moderate their own feelings socially and emotionally.

-Think about the perspectives of others.

-Manage their own needs

ELG

Talk about the lives of the people around them and their roles in society.

fiction texts and maps.

Know some similarities and differences between different religious and cultural communities in this country, drawing on their experiences and what has been read in class.

Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, nonfiction texts and (when appropriate) maps.

Learning about others

Discussing feelings

Learning to share and play together.

| | Show an understanding of their own feelings and those of others and begin to regulate their behaviour accordingly. | |
|------------|--|--|
| | -Set and work towards simple goals, being able to wait for what they want and control their immediate impulses when appropriate. | |
| | -Give focused attention to what the teacher says, responding appropriately even when engaged in activity, and show an ability to follow instructions involving several ideas or actions. | |
| | -Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. | |
| | -Explain the reasons for rules, know right from wrong and try to behave accordingly. | |
| | -Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. | |
| | -Work and play cooperatively and take turns with others. | |
| | -Form positive attachments to adults and friendships with peers. | |
| | -Show sensitivity to their own and to others' needs. | |
| The Colour | 3and 4 Year Olds | Be able to identify different |
| Monster | -Develop their sense of responsibility and membership of a community. | emotions |
| | -Become more outgoing with unfamiliar people, in the safe context of their settingShow more confidence in new social situations. | Know when we may feel these different emotions |
| | -Play with one or more other children, extending and elaborating play ideas. | Be able to express their |
| | -Help to find solutions to conflicts and rivalries. For example, accepting that not everyone can be Spider Man in the game, and suggesting other ideas. | emotions and discuss why |

-Develop appropriate ways of being assertive.

-Talk with others to solve conflicts.

-Talk about their feelings using words like 'happy', 'sad', 'angry' or 'worried'.

-Begin to understand how others might be feeling

Children in Reception

-See themselves as a valuable individual.

-Build constructive and respectful relationships.

-Express their feelings and consider the feelings of others.

-Show resilience and perseverance in the face of challenge.

-Identify and moderate their own feelings socially and emotionally.

–Think about the perspectives of others.

-Manage their own needs

ELG

Show an understanding of their own feelings and those of others and begin to regulate their behaviour accordingly.

-Set and work towards simple goals, being able to wait for what they want and control their immediate impulses when appropriate.

-Give focused attention to what the teacher says, responding appropriately even when engaged in activity, and show an ability to follow instructions involving several ideas or actions.

The children will learn how to play individually and as part of a group

Learn to share and why it is important

Learn resilience and the importance

Learn Perseverance and the importance

Listen and respect one another

Grow in confidence

Express their own ideas

Manage their feelings

Understand and learn how others may feel as a consequence to an action

Empathy

| | -Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. -Explain the reasons for rules, know right from wrong and try to behave accordingly. -Work and play cooperatively and take turns with others. -Form positive attachments to adults and friendships with peers. -Show sensitivity to their own and to others' needs. | Form positive attachment with adults and peers by being present and following instructions/rules. |
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| Owls Hedgehogs Vets and Pets | 3 and 4 Year Olds -Use all their senses in hands-on exploration of natural materials. -Explore collections of materials with similar and/or different properties. -Talk about what they see, using a wide vocabulary. -Understand the key features of the life cycle of a plant and an animal. -Begin to understand the need to respect and care for the natural environment and all living things. -Talk about the differences between materials and changes they notice Children in Reception -Draw information from a simple map. -Recognise some environments that are different to the one in which they live. ELG | Favourite animals - names and body parts eg paw, claw, tusks, hooves, beak, talons, etc Patterns and textures/ fur, skin, wool, feathers etc Animal environments - forest, desert, jungle, ocean, mountains etc How to look after our environment for animals - reduce, reuse, recycle Textures of Animal skins etc. |

| | -Describe their immediate environment using knowledge from observation, discussion, stories, nonfiction texts and maps. -Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, nonfiction texts and (when appropriate) maps. -Explore the natural world around them, making observations and drawing pictures of animals and plants. -Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. | What animals eat/drink/live? Create a map of their journey through a farm/jungle and what they may see |
|---------|--|--|
| Autumn | 3 and 4 Year Olds | Changes in the environment - |
| Bonfire | -Use all their senses in hands-on exploration of natural materials. | trees, plants, weather, day length |
| Night | -Explore collections of materials with similar and/or different properties. | Watching change over time - |
| Harvest | -Talk about what they see, using a wide vocabulary | leaves |
| | -Understand the key features of the life cycle of a plant and an animal. | Evergreens |
| | -Begin to understand the need to respect and care for the natural environment and all living things. | Animal behaviour in autumn - |
| | -Listen with increased attention to sounds. | hibernation, migration |
| | -Respond to what they have heard, expressing their thoughts and feelings. | How to look after pets and |
| | -Remember and sing entire songs. | ourselves on Bonfire night |
| | Children in Reception | Learning about when harvest |
| | -Explore the natural world around them. | is and the processes |
| | -Describe what they see, hear and feel whilst outside. | Can name some machinery |

| | -Understand the effect of changing seasons on the natural world around them. | Know about historical figures |
|-----------|---|-------------------------------|
| | -Listen attentively, move to and talk about music, expressing their feelings and responses. | e.g. Guy Fawkes |
| | -Sing in a group or on their own, increasingly matching the pitch and following the melody. | Learn names for different |
| | -Develop storylines in their pretend play. | crops |
| | -Explore and engage in music making and dance, performing solo or in groups | Learn a repertoire of songs |
| | ELG | and rhymes. |
| | -Explore the natural world around them, making observations and drawing pictures of animals and plants. | |
| | -Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. | |
| | -Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter | |
| | -Sing a range of well-known nursery rhymes and song | |
| | -Perform songs, rhymes, poems and stories with others, and (when appropriate) try to move in time with music | |
| Christmas | 3 and 4 year olds | Learn the Christmas Story |
| Stickman | -Talk about their feelings using words like 'happy', 'sad', 'angry' or 'worried'. | Learn about Advent |
| | -Begin to understand how others might be feeling | Celebrations and Traditions |
| | -Use all their senses in hands-on exploration of natural materials | Learn Stickman story |
| | -Explore collections of materials with similar and/or different properties. | |

-Talk about what they see, using a wide vocabulary.

Children in Reception

- -Talk about members of their immediate family and community.
- -Compare and contrast characters from stories, including figures from the past.
- -Recognise that people have different beliefs and celebrate special times in different ways.
- -Recognise some similarities and differences between life in this country and life in other countries.
- -Explore the natural world around them.
- -Describe what they see, hear, and feel whilst outside
- -Understand the effect of changing seasons on the natural world around them

ELG

- some similarities and differences between different religious and cultural communities in this country, drawing on their experiences and what has been read in class.

society.

- -Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class.
- -Understand the past through settings, characters and events encountered in books read in class and storytelling

Retell the story

Make a stickman using natural materials

Look at the changing seasons

Discuss how to dress appropriately in the different seasons

Talk about how the character is feeling, how his family may be feeling, how you would feel.

Floating and sinking sticks

Heavier and lighter

| | -Understand some important processes and changes in the natural world around them, including | |
|------------|---|--------------------------------|
| | the seasons and changing states of matter | |
| People who | 3 and 4 Year Olds | Learn different occupations |
| Help us | -Show interest in different occupations | Learn names of equipment |
| | -Continue to develop positive attitudes about the differences between people. | Similarities between our |
| | -Know that there are different countries in the world and talk about the differences they have experienced | country and others |
| | or seen in photos | Learn the names of a |
| | Children in Reception | contrasting country |
| | -Talk about members of their immediate family and community. | |
| | -Name and describe people who are familiar to them. | Explore different jobs |
| | -Understand that some places are special to members of their community | Discuss jobs in their families |
| | -Recognise some similarities and differences between life in this country and life in other countries. | |
| | ELG | |
| | -Talk about the lives of the people around them and their roles in society. | |
| | -Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class. | |
| | been read in class. | |

| -Explain some similarities and differences between life in this country and life in other countries, | |
|--|---|
| drawing on knowledge from stories, nonfiction texts and (when appropriate) maps | |
| | 1 |

Lent Term

| TOPIC | DEVELOPMENT MATTERS OBJECTIVES | KEY FACTS VOCABULARY |
|-----------|--|---|
| Arctic | 3 and 4 Year Olds | Favourite animals - names and |
| Dinosaurs | -Use all their senses in hands-on exploration of natural materials. | body parts eg paw, claw, tusks, hooves, beak, talons, etc |
| Farm | -Explore collections of materials with similar and/or different properties. -Talk about what they see, using a wide vocabulary. | Patterns and textures/ fur, skin, wool, feathers etc |
| Jungle | -Understand the key features of the life cycle of a plant and an animal. -Begin to understand the need to respect and care for the natural environment and all living things. | Animal environments - forest, desert, jungle, ocean, mountains |
| | -Talk about the differences between materials and changes they notice | etc |
| | Children in Reception | How to look after our environment for animals - reduce, |
| | -Draw information from a simple map. | reuse, recycle |
| | -Recognise some environments that are different to the one in which they live. | Textures of Animal skins etc. |
| | ELG | What animals eat/drink/live? |

| | -Describe their immediate environment using knowledge from observation, discussion, stories, nonfiction texts and maps. -Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, nonfiction texts and (when appropriate) maps. -Explore the natural world around them, making observations and drawing pictures of animals and plants. -Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. | Create a map of their journey through a farm/jungle and what they may see |
|------------------|---|---|
| Winter Spring | 3 and 4 Year Olds -Use all their senses in hands-on exploration of natural materials. -Explore collections of materials with similar and/or different properties. -Talk about what they see, using a wide vocabulary -Understand the key features of the life cycle of a plant and an animal. -Begin to understand the need to respect and care for the natural environment and all living things. -Plant seeds and care for growing plants. -Understand the key features of the life cycle of a plant and an animal -Listen with increased attention to sounds. -Respond to what they have heard, expressing their thoughts and feelings. -Remember and sing entire songs. | Learn the new seasons Know how to dress appropriately Spot signs of the changing seasons Discuss colours Look at the life cycle of a tree Look at the animals that are around/hibernating Plant seeds watch them group Care for plants |

Children in Reception

-Explore the natural world around them.

-Describe what they see, hear and feel whilst outside.

- -Understand the effect of changing seasons on the natural world around them.
- -Listen attentively, move to and talk about music, expressing their feelings and responses.
- -Sing in a group or on their own, increasingly matching the pitch and following the melody.
- -Develop storylines in their pretend play.
- -Explore and engage in music making and dance, performing solo or in groups

ELG

-Explore the natural world around them, making observations and drawing pictures of animals and plants.

- -Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.
- -Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter
- -Sing a range of well-known nursery rhymes and song
- -Perform songs, rhymes, poems and stories with others, and (when appropriate) try to move in time with music

Science experiment plants in different temperatures/light/water

| Healthy |
|---------|
| Living |

3 and 4 Year Olds

- -Talk about what they see, using a wide vocabulary.
- -Continue to develop positive attitudes about the differences between people.
- -Know that there are different countries in the world and talk about the differences they have experienced or seen in photos
- -Talk about their feelings using words like 'happy', 'sad', 'angry' or 'worried'.
- -Begin to understand how others might be feeling

Children in reception

- -Understand that some places are special to members of their community.
- -Recognise that people have different beliefs and celebrate special times in different ways.
- -Recognise some similarities and differences between life in this country and life in other countries.
- -See themselves as a valuable individual.
- -Build constructive and respectful relationships.
- -Express their feelings and consider the feelings of others.
- -Show resilience and perseverance in the face of challenge.
- -Identify and moderate their own feelings socially and emotionally.
- -Think about the perspectives of others.
- -Manage their own needs

Learn about different foods and their impact on our bodies

Importance of exercise and balanced diet

Hobbies

Learn new skills

Discuss personal hygiene

Manage feelings

Think about others feelings

Make a healthy lunch

Learn small amounts of sugary foods are okay for our bodies

Learn some statistics

Respect others

Know everyone is different

| | ELG | |
|-------|---|--------------------------------|
| | -Know some similarities and differences between different religious and cultural communities in this country, drawing on their experiences and what has been read in class. | |
| | -Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, nonfiction texts and (when appropriate) maps. | |
| | -Show an understanding of their own feelings and those of others and begin to regulate their behaviour accordingly. | |
| | -Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. | |
| | -Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. | |
| | -Form positive attachments to adults and friendships with peers. | |
| | -Show sensitivity to their own and to others' needs. | |
| Space | 3 and 4 year olds | Learn planets |
| | -Explore collections of materials with similar and/or different properties. | Look at constellations |
| | -Talk about what they see, using a wide vocabulary. | Look at the phases of the moon |
| | -Show interest in different occupations. | Learn equipment |
| | -Explore how things work. | Light and Dark |
| | -Explore and talk about different forces they can feel. | |
| | -Talk about the differences between materials and changes they notice | |

Children in Reception

-Comment on images of familiar situations in the past.

-Compare and contrast characters from stories, including figures from the past.

-Explore the natural world around them.

- Describe what they see, hear and feel whilst outside.

-Recognise some environments that are different to the one in which they live

ELG

-Describe their immediate environment using knowledge from observation, discussion, stories, nonfiction texts and maps.

-Explore the natural world around them, making observations and drawing pictures of animals and plants.

-Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.

Learn about people who have been on the moon

Learn songs and rhymes

Explore gravity (experiment)

Look at forces

Look at how craters are made

Pentecost Term

3 and 4 Year Olds Favourite animals - names and Minibeasts body parts eg paw, claw, tusks, -Use all their senses in hands-on exploration of natural materials. Sea hooves, beak, talons, etc -Explore collections of materials with similar and/or different properties. Creatures Patterns and textures/fur, skin, -Talk about what they see, using a wide vocabulary. wool, feathers etc -Understand the key features of the life cycle of a plant and an animal. Animal environments - forest, -Begin to understand the need to respect and care for the natural environment and all living things. desert, jungle, ocean, mountains etc -Talk about the differences between materials and changes they notice How to look after our Children in Reception environment for animals --Draw information from a simple map. reduce, reuse, recycle -Recognise some environments that are different to the one in which they live. Textures of Animal skins etc. ELG What animals eat/drink/live? -Describe their immediate environment using knowledge from observation, discussion, stories, Create a map of their journey nonfiction texts and maps. through a farm/jungle and what -Explain some similarities and differences between life in this country and life in other countries, they may see drawing on knowledge from stories, nonfiction texts and (when appropriate) maps. -Explore the natural world around them, making observations and drawing pictures of animals and plants.

| | -Know some similarities and differences between the natural world around them and contrasting | |
|-------------|---|--|
| | environments, drawing on their experiences and what has been read in class. | |
| Traditional | 3 and 4 Year Olds | Read traditional tales and learn |
| Tales | -Talk about what they see, using a wide vocabulary | story sequences. |
| | Children in Reception | Talk about different characters in a story. |
| | -Name and describe people who are familiar to them. | Re tell stories. |
| | -Comment on images of familiar situations in the past. | Learn 'fiction' |
| | -Compare and contrast characters from stories, including figures from the past. | Know different features of a |
| | -Recognise some environments that are different to the one in which they live. | book. |
| | ELG | Learn rhymes and repeated |
| | -Understand the past through settings, characters and events encountered in books read in | refrains. |
| | class and storytelling | Order events. |
| Kings and | 3 and 4 Year Olds | Learn about our Monarch |
| Queens | -Talk about what they see, using a wide vocabulary. | History. |
| | -Show interest in different occupations. | Know different names for royal |
| | -Explore how things work. | belongings. E.g. crown. Know what the Queen/Kings job |
| | -Know that there are different countries in the world and talk about the differences they have experienced or seen in photos. | is. |

| Machines | -Explore collections of materials with similar and/or different properties. | Looking at past and present ways of travelling |
|-----------|---|--|
| and | -Use all their senses in hands-on exploration of natural materials. | Metal Detectors - Forces |
| Transport | 3 and 4 year olds | Beetbots - Travelling |
| | -Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, nonfiction texts and (when appropriate) maps. | |
| | been read in class. | |
| | -Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class | |
| | -Talk about the lives of the people around them and their roles in society. | |
| | ELG | King Charle's Coronation |
| | -Recognise some similarities and differences between life in this country and life in other countries. | The role of the monarchy in England |
| | -Understand that some places are special to members of their community. | Know past and present royals. |
| | -Comment on images of familiar situations in the past. | lives. |
| | -Name and describe people who are familiar to them. | Know where the King/Queen |
| | -Talk about members of their immediate family and community. | our country and others around us. |
| | Children in Reception | Know the difference between |

| | -Talk about what they see, using a wide vocabulary | Looking at how transport works. |
|---------|---|---|
| | -Explore how things work. | Knowing different transport |
| | -Explore and talk about different forces they can feel. | Children using iPad |
| | -Talk about the differences between materials and changes they notice. | Looking how things work and |
| | Children in Reception | design their own machine |
| | Comment on images of familiar situations in the past | Reading Non-Fiction Texts - |
| | Draw information from a simple map. | <u>Machines</u> |
| | ELG | Reading Fiction Texts - The Naughty Bus |
| | -Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class. | Maddie space and I - Machines |
| | -Understand the past through settings, characters and events encountered in books read in class and storytelling. | |
| | -Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, nonfiction texts and (when appropriate) maps. | |
| Summer | 3 and 4 Year Olds | Learn the different seasons and |
| Seaside | -Use all their senses in hands-on exploration of natural materials. | the effect on the environment. |
| | -Explore collections of materials with similar and/or different properties. | Learn new vocabulary e.g. seaside, beach, sea, sandcastle |

-Talk about what they see, using a wide vocabulary

-Understand the key features of the life cycle of a plant and an animal.

-Begin to understand the need to respect and care for the natural environment and all living things.

-Listen with increased attention to sounds.

-Respond to what they have heard, expressing their thoughts and feelings.

-Remember and sing entire songs.

Children in Reception

-Explore the natural world around them.

-Describe what they see, hear and feel whilst outside.

-Understand the effect of changing seasons on the natural world around them.

-Listen attentively, move to and talk about music, expressing their feelings and responses.

-Sing in a group or on their own, increasingly matching the pitch and following the melody.

-Develop storylines in their pretend play.

-Explore and engage in music making and dance, performing solo or in groups

ELG

-Explore the natural world around them, making observations and drawing pictures of animals and plants.

-Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.

Be able to describe what a seaside looks like.

Know different sea and land creatures.

Explore the 5 different senses.

Read both fiction and non fiction texts.

Learn rhymes and songs linking to the seaside/summer.

Create summer/seaside pictures from both memory and guidance.

| | -Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter -Sing a range of well-known nursery rhymes and song -Perform songs, rhymes, poems and stories with others, and (when appropriate) try to move in time with music | |
|---------|---|---|
| Pirates | 3 and 4 Year Olds | The children will learn to use |
| 4105 | -Talk about what they see, using a wide vocabulary | their imagination in their role play. |
| | Children in Reception | Read fiction texts. |
| | -Compare and contrast characters from stories, including figures from the past. | Learn vocabulary such as, |
| | -Recognise some environments that are different to the one in which they live. | pirates, treasure, chest, ship. |
| | ELG -Understand the past through settings, characters and events encountered in books read in | Sinking and floating pirate ships. (Make) |
| | class and storytelling | Create new storylines. |
| | | Retell different stories. |
| | | Learn about the sea. |