

# Year 2

# **Enquiry overviews**

What do I need to be healthy? Why should we change the way we travel? Where are the polar regions and how are they changing? Why should we reduce, reuse and recycle? What can I discover about different plants? Why are bees so brilliant?

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#### Half-termly planning overview Year 2 – Autumn Term 1



Enquiry question: What do I need to be healthy?

information safely

online?

Harmony principle: The principle of Health

Sustainability action: Sourcing and harvesting seasonal food to make a healthy meal

Great Work: Preparing and sharing a healthy, seasonal meal

Partners in learning: Local farmers or allotment growers, yoga instructors

	Weekly Questions							
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6		
	What can my body do?	What helps me to feel well?	Why is it good to eat seasonal fruit and vegetables?	Which foods help me to stay healthy?	Why should I keep myself clean?	What responsibilities do I have to keep myself feeling healthy?		
GEOMETRY	Where can I find symmetry on my body?	What are the proportions of my body? (Vitruvian man)	What shapes do we find in the cross- section of an apple?	What patterns can I see when I slice fruit and vegetables?	Where do we see patterns in Nature?	What patterns can I find in the proportions of my hands?		
SCIENCE	What do humans and other animals need to stay alive?	What is the difference between being alive and being healthy?	What different types of food are there?	What do our bodies need from the food we eat and why?	What is hygiene and why is it important?	What changes can l make to be healthier?		
ENGLISH	What are the features of different types of poetry?	What statements can I use in 'feel-good' poetry?	How will I write a letter asking for donations of seasonal food for Harvest Festival?	What will I include in a clear set of instructions to make a healthy recipe? (link to DT)	How can I use what I know about instructions to explain how we should brush our teeth?	How will I retell the story of <i>Oliver's Vegetables</i> ?		
GPS FOCUS	What is a statement?	How can I use statements to convey meaning?	How does an apostrophe show that something belongs to someone?	How is a command different from a statement?	How can l use commands in a recipe?	How accurately can I spell the days of the week in my story?		
MATHS	How can I use my knowledge of place value to write true and false statements about numbers?	How can I use our class exercise data to order and compare numbers using < > =?	How can I use addition to find the sum of quantities or weights of fruit and vegetables? (pictorial and written methods)	How can I use addition to find the difference between quantities or weights of fruit and vegetables?	How can I relate counting in 5s patterns to addition and subtraction? What about 10s and 2s?	How can I use my understanding of addition and subtraction to solve word problems about quantities for cooking?		
HISTORY	Who helps people stay healthy today? Who helped them in the past? (link to PSHE)	How can we find out what hospitals and medicine used to be like?	What would I like to find out about Mary Seacole/Florence Nightingale?	What did Mary Seacole/Florence Nightingale do?	How have our lives been influenced by the actions of Mary Seacole/Florence Nightingale?	Why do we remember Mary Seacole/Florence Nightingale today?		
DT	What seasonal foods can we obtain locally and what do they taste like?	What seasonal food would I like to use in my meal and who is it for?	What other recipes are similar to mine that I can research?	What skills do I need to learn to be able to make my meal next week?	How can I ensure I use good hygiene when making my healthy meal? (make ahead and freeze)	Who will eat my healthy dish and how will they evaluate it?		
5NG	What is healthy way to	How can I search for	What information	What should I do if I	What do algorithms	How can I use computer		



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BE	Yoga: What shapes can I create in yoga?	Yoga: What balances can I create using yoga poses?	Gymnastics: How can I work with a partner to create balances?	Gymnastics: What different shapes can I make by jumping?	Gymnastics: How many different ways of travelling can I explore?	Gymnastics: How can I use gymnastic moves in sequence with a partner?
MUSIC	Which parts of our body help us to sing 'Food, Glorious Food?	How can I clap out the beat to 'Food Glorious Food'?	What skills do we need to sing our song in a round?	How can we identify pitch and control dynamics when singing 'Cauliflowers Fluffy'?	How can we use the rest of our bodies to enhance the performance of 'Cauliflowers Fluffy'?	How can we combine our two songs to create a joyful song? (shared beat)
PSHE	Who helps me to keep my body healthy?	How and why does physical activity keep me healthy?	How much choice do I have over the food I eat?	How does sleep help to keep me healthy?	How can I keep myself clean and why is it important?	What should I do if I'm feeling unhealthy?
OUTDOOR LEARNING	Run an outdoor yoga session	Run an outdoor yoga session	Harvest some apples growing locally	Collect or shop for DT project food	Participate in outdoor singing	Organise a vist to an allotment or farm visit

ever feel unsafe when

I'm using technology?

about myself is it OK to

share and what isn't?

and instructions have in

common?

commands to create a

simple algorithm?

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use technology?

OMPUTING

#### Half-termly planning overview Year 2 – Autumn Term 2



**Enquiry question:** Why should we change the way we travel?

Harmony principle: The principle of Adaptation

How can I travel in

gymnastics using other

Sustainability action: Organising a pollution-free travel event

Great Work: Sound of travel exhibition (soundscape & glockenspiel performance)

Partners in learning: Transport museums; active travel initiatives; Sustrans



13 CLIMATE ACTION

	(floorwork)	floorwork)	short sequence?	equipment? (beam and benches)		to travel through an 'obstacle course'?
MUSIC	How will I find the beat in <i>The wheels on the</i> <i>bus</i> ?	What is rhythm and how is it different from a beat?	What is a glockenspiel and how do I play it?	How do I play The wheels on the bus on the glockenspiel? (1)	How do I play <i>The</i> <i>wheels on the bus</i> on the glockenspiel? (2)	How do I perform <i>The</i> <i>wheels on the bus</i> on the glockenspiel?
PSHE	Which forms of travel are good for my body and mind?	How can I make decisions about how I travel?	How can my voice help others to make good decisions?	How does being with other people make me feel?	What do I think about air travel and how will I be a responsible flyer when I grow up?	How will I change the way I travel and why?
OUTDOOR LEARNING	Walk the perimeter and length of the playground	Examine design of bikes in school bike rack	Compare design of cars in school car park	Go on a winter walk	Measure how far planes made in science fly	Test healthy vehicles outside

How can I use

balance to travel over

How can I travel

over a vault?

How can l use

different movements

What movements

will I include in a

How can I travel

in gymnastics on

R

#### Half-termly planning overview Year 2 – Spring Term 1



Enquiry question: Where are the polar regions and how are they changing?

Harmony principle: The principle of Oneness

Sustainability action: Identifying three personal energy-saving actions

Great Work: Launching an Every Action Counts campaign

Partners in learning: British Antarctic Survey, 2041 Foundation, ecoDriver

	Weekly Questions							
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6		
	Where are the polar regions and how are they different?	How do animals survive in the polar regions?	Where do people live in the polar regions?	How is the Arctic changing and why?	How is Antarctica changing and why?	What action can we take to stop the ice melting?		
GEOMETRY	How can I create a snowflake design using rotational symmetry?	How can I create a picture of an Arctic tern using reflective symmetry?	What shapes would support a shelter for people in the polar regions?	How is a polar bear paw like my hand?	What can we learn from the webbed feet of an emperor penguin?	What are concentric circles and where would we see them in the polar regions?		
SCIENCE	What do we find in the polar regions? (living, dead, never alive)	Which animals live in the polar regions and how do they protect their offspring?	How are polar animals suited to their habitat and what are their basic needs?	How is the Arctic food chain threatened?	How is the Antarctic food chain threatened?	Why is ice such an important part of polar habitats?		
ENGLISH	How can I describe polar animals in poetry?	How do Antarctic animals survive the cold? (fact files)	What is a day in the life of an Inuit person like? (diary entry)	What will my book review say about <i>The</i> <i>Trouble with Dragons</i> ?	What did the dragons in <i>The Trouble with Dragons</i> do next? (story writing)	What can we do to tackle climate change at school and at home? (persuasive writing)		
GPS FOCUS	How can I use noun phrases to enrich my poetry?	How will I use commas in a list?	How do I write in the past tense?	What are the different ways of using an apostrophe?	What punctuation helps me write direct speech?	How can I use a range of verbs in my writing?		
MATHS	How can I use multiplication to find how much ice weighs?	Are penguins taller or shorter than us?	How can I measure changes to the volume of water?	What can a block graph tell us about how we use energy?	How is our energy use different in winter and in summer?	How can I record data about our energy use in a tally chart?		
GEOGRPAHY	Where are the polar regions in relation to the oceans and continents?	What is the weather like in the polar regions and why?	How would a compass help an explorer travelling to the polar regions?	What can we learn about the Arctic from aerial photos?	What can we learn about Antarctica from aerial photos?	Which of the features of the polar regions are changing and why?		
COMPUTING	What will I include in a cold, icy photograph?	How do I save a photograph to a computer?	What different photographs can I take of my ice sculpture?	How can I edit photographs to improve them? (1)	How can I edit photographs to improve them? (2)	How will I present my photos as a slideshow in Powerpoint?		
R	POLAR EXPEDITION TRAINING: How can running improve my fitness? (1)	POLAR EXPEDITION TRAINING: How can running improve my fitness? (2)	POLAR EXPEDITION TRAINING: How can circuit training improve my fitness? (1)	POLAR EXPEDITION TRAINING: How can circuit training improve my fitness? (2)	POLAR EXPEDITION TRAINING: How can I strengthen my core to help me to balance?	POLAR EXPEDITION TRAINING: How can I use my body weight to build my strength?		
ART & DESIGN	How can I create a transient artwork that creates no waste? (Andy Goldsworthy)	What natural materials can I collect to freeze in an ice sculpture?	How can I capture the beauty of my ice sculpture in a photograph?	What will I include in a sketch of a polar scene?	How can I use watercolours to paint a polar scene?	Which paintbrushes will allow me to add detail to a polar scene?		



MUSIC	What is Inuit drum dancing? (rhythms and pulse)	How can I create different rhythms over a pulse with a partner?	How can I create different rhythms over a pulse as part of a small group?	How can I use simple notation to record the rhythms of my own Inuit drum dance?	How can I sing a simple tune over the rhythms of my Inuit drum dance?	How can we layer rhythms as a class to make an Inuit soundscape?
PSHE	What does it mean to be responsible?	What rules are there for visiting the polar regions and why are they important?	Whose responsibility is it to take care of the world?	What can we do where we live to help animals in the polar regions?	What good things happen when we act responsibly?	How can we encourage others to act responsibly to protect the polar regions?
OUTDOOR LEARNING	Make transient art with natural materials from the school grounds	Find natural materials outside for ice sculptures	Use a compass to guide an outdoor journey	Feel and measure the temperature outside and compare it with the polar regions	Launch Every Action Counts campaign to the school community	Perform class Inuit soundscape outside

### Half-termly planning overview Year 2 – Spring Term 2



Enquiry question: Why should we reduce, reuse and recycle?

Harmony principle: The principle of the Cycle

Sustainability action: Providing the community with waste reducing tips

Great Work: Host a 'sharing skills' repair workshop

Partners in learning: Local recycling centre, Ellen MacArthur Foundation



			Weekly C	luestions		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	What is waste and why do we produce so much?	How can we reduce the amount we waste?	How can we re-use items we might throw away?	What can we repair to use again?	How can we create cycles in our own lives?	ls it better to reduce, re-use or recycle?
GEOMETRY	What kind of patterns can I create with circles?	How will I create and colour concentric circles from the same centre point?	How can I draw the cyle of the seasons?	How can I draw the life cycle of an animal?	How will I use a circular design to create the RRR logo?	How will I improve my RRR circular logo design to make it really stand out?
SCIENCE	What materials do we throw away in our school?	What are the properties of the materials we throw away?	Why are some materials better for making different things?	INVESTIGATION How can I change the shape of materials? (practical)	INVESTIGATION How can I change the shape of materials? (recording)	How do different materials get recycled?
ENGLISH	What do I throw away in a week? (using subheadings in non-fiction)	What happens to waste in Nature and what can we learn from it? (writing letters from Nature)	How can I explore the story of 'One plastic bag'?	What will I include in my own 'One Plastic Bag' story?	How can we continue the cycle of traditional tales?	How will I re-cycle a traditional tale?
GPS FOCUS	How do I use past and present tense correctly?	How do contractions work?	How many suffixes can I find in the story?	How do I use an apostrophe to show possession?	What expanded noun phrases can I find in the text?	What expanded noun phrases will bring my story to life?
MATHS	What would a tally chart of our waste show us?	How can I convert my tally chart into a pictogram?	How much money could we save by re-using or repairing items?	What maths skills would we use in our re- use and repair shop? (calculating change)	How much of everything do I need to make my own picnic blanket?	What is the weight of what we recycle in our classroom?
HISTORY	How can we find out what happened to our waste in the past?	What was a rag and bone man and what did he do?	What did re-using look like in the past and what does it look like today?	How has our attitude to single use plastic changed?	How has the way we recycle changed? (wartime, UK household waste recycling act)	What behaviour changes would we like to see in the future?
ART & DESIGN	What do shopping bag designs look like?	Which piece of used fabric will I reuse for my design?	How can I learn a simple sewing technique?	How will I make my design using re-used material?	How can I learn to tie a knot to attach a handle to my bag?	How successful was my design and who will take it shopping?
COMPUTING	How can we listen to Michael Recycle online?	How do I create a text box to type in 'Reduce, Reuse, Recycle' tips?	How do I change the colours and fonts of my text?	What picture will I insert to have the most impact?	How can I move my text and pictures to make my slide clear and engaging?	How do I save my slide ready to publish for my great works?

В	How do I hold and jump over a skipping rope?	Why does the skipping cycle break sometimes?	How many times can l skip in one minute?	How can I skip with a group of friends?	What circular rhymes can we sing together?	What skipping rhymes can we learn from our elders?
MUSIC	How can I identify rhythm in a piece of music?	What sounds can I make from recyclable materials?	How can I identify simple musical notation?	How can I use musical notation to create my own rhythm?	What happens when I repeat my rhythm?	How does temp and dynamics affect my rhythm cycle performance?
PSHE	What is the internet and how does it help us? (link to computing)	How do I search safely for information online?	How does the internet help us to reduce what we use?	What do I need to know about social media?	Why is too much internet bad for me?	What should I do if I see something I don't like online?
OUTDOOR LEARNING	Go into local area to monitor the amount and types of waste	Spend time in Nature noticing how it re-uses its own waste	Arrange a litter pick inspired by 'One Plastic Bag.	Open up a re-use and repair shop in school grounds	Play recyclable materials as instruments outside	Share traditional tales in an outside space/ under the trees

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#### Half-termly planning overview Year 2 – Summer Term 1



**Enquiry question:** What can I discover about different plants?

Harmony principle: The principle of Diversity

Sustainability action: Growing food at school and at home

Great Work: Growing plants to make an end of term salad

How can I pass a

ball using the inside

Partners in learning: Local allotment growers; food producers and farmers



	WeeklyQuestions						
	Week 1	Week 2	Week 3	Week 4	Week 5	Week ó	
	What is a plant?	How does a plant begin?	Why do roots follow a fractal growth pattern?	Why do most plants need a stem?	Why is a leaf like a factory?	Why does a plant produce flowers?	
GEOMETRY	Which shapes will I see in my drawing of a plant?	How many different seed shapes can l draw?	How will I represent roots using fractal symmetry?	Can I create a beanstalk?	How many different leaf shapes can I find and draw?	What will I see in my cross section of a tomato?	
SCIENCE	What is a plant?	How does a plant begin?	What are roots and where do they come from?	Why do most plants need a stem?	Why is a leaf like a factory?	How does a flower help produce food to eat?	
ENGLISH	How will I describe the different plants that grow in my imaginary garden?	How will I improve my setting description of the different plants that grow in my imaginary garden?	How will I write a scene from Jack and the beanstalk as a playscript?	What will I include in my own version of Jack and the beanstalk?	How will I compare different 'leaf stories' from different habitats the world?	What will I include in my poster to encourage parents to grow food at home?	
GPS FOCUS	How will use different adjectives to create expanded noun phrases?	How will use different adjectives to create expanded noun phrases?	How will I ensure that I am using tenses accurately?	How will I use conjunctions to develop my sentences?	How will I use conjunctions to compare leaf stories?	How will I organise information to make it clear for the reader?	
MATHS	How will I record how many different types of plants I can find in the school grounds?	How long do different food plants take to grow?	How many seeds can I grow?	How tall are different stems?	How will I use symmetry to complete the different leaf shapes?	How far has my lunch tomato travelled?	
GEOGRAPHY	How wil I record which plants grow in our school grounds?	What are the different uses of plants?	How can plants help improve both our health?	Which plants grow the tallest in our school grounds?	Which plants are grown in hot and cold climates?	Where can we find tomatoes growing in our school grounds and local area?	
ART & DESIGN	How will I use charcoal to create sketches of plants in the school grounds?	How will I use tools to add texture to make a seed pod out of clay inspired by Halima Cassell?	How will I use paint and straws to recreate roots?	How will I add colour to a cross section of a stem?	How will I create a picture using leaf rubbings?	How will I add colour to my cross section of a tomato?	
COMPUTING	What different types of technology do we find in our school?	What different types of technology do we find in our homes?	How has technology changed over time?	What is artificial intelligence and what are the advantages and disadvantages?	What piece of technology do I think is the most useful?	How will I persuade my class of the benefits of the technology I have chosen?	

<b>A</b>	of my foot?	of my foot?	with accuracy?		with accuracy?	
MUSIC	How will we work together to sing flower, stem, leaves and roots to tune of head, shoulders, knees and toes?	What words will we choose to create our own verse for 'flower, stem, leaves and roots'?	How will we use voice and body percussion to represent sounds of roots and shoots?	Which instruments will we use to describe the leaves soaking up sunlight and water to make food?	How will we sound to represent buzzing bees pollinating flowers?	How will we layer our sounds together to represent a seed growing into a flower?
PSHE	How are we like plants?	Why is growing food good for us?	What else helps us to feel well?	What are the different parts of our body?	What different feelings do we have and where do they come from?	How can we manage big feelings?
OUTDOOR LEARNING	Collect data on different types of flowers in the school grounds	Plant a range of seeds in different conditions	Trip to allotment or farm shop to identify different parts of the plant that is eaten	Measure lengths of different stems in the school grounds	Collect different shape leaves on local walk	Organise a salad bar experience

How can I dribble a ball How can I roll a ball at a

target with accuracy?

in different directions

How can I throw

a ball at a target

How can I catch a

ball with accuracy?

How can I stop a ball

using my sole or inside

ш

## Half-termly planning overview Year 2 – Summer Term 2



**Enquiry question:** Why are bees so brilliant?

Harmony principle: The principle of Interdependence

Sustainability action: Creating bee-friendly habitats

Great Work: Making and sharing hexagonal books about bees

Partners in learning: Beekeepers Association; The Bumblebee Conservation Trust



			Weekly C	uestions		
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	How many different species of bee are there in the UK?	How do the different species of bees work together?	How do flowers help bees?	How do bees help flowers?	Why are bees and other bugs disappearing?	What can we do to make sure bees and other bugs thrive?
GEOMETRY	What are the different life cycles of the different bee species? (diagram)	What are the parts of a bee's body? (exploring symmetry and proportion)	How can I draw a flower using a circle template? (simple three and four-petalled flowers)	What different shapes are pollen grains when I look at them through a microscope?	How can we make hexagonal pages for a book about bees?	What will make my hexagonal bee book look amazing?
SCIENCE	What habitats do different bees live in?	What do different bees need to survive and stay healthy?	What food do bees get from flowers and how do they get it?	Why do flowering plants need bees? (pollination)	What things threaten bees? Why are there fewer bees?	What can we do to help bees?
ENGLISH	What are the features of a non-chronological report?	How can I write my own non-chronological report about bees?	What makes an adventure story really exciting?	How can I create an adventure story about a bee that is exciting and interesting to read?	What instructions would explain how to save our wild bees? (1)	What instructions would explain how to save our wild bees? (2)
GPS FOCUS	What are the best statements for a non-chronological report about bees? (1)	What are the best statements for a non-chronological report about bees? (2)	When should I use an exclamation mark in a story?	How can I use direct speech to make my story more interesting?	What are the best commands to use in instructions about beekeeping?	Which sentence structures will improve instructions about beekeeping?
MATHS	How can l interpret data in a tally chart about bees?	How can I record data in a tally chart about bees?	What are the properties of the triangles and squares we created in our Geometry activity?	How can I describe 2D and 3D shape from our observation of pollen grains?	Where can I find hexagons on 3D shapes?	How are the compound eyes of all bees structured?
GEOGRAPHY	What can we see and label on an aerial map of our school grounds?	How can I map the routes bees take from flowers to their nests?	Which places in our school grounds are bee-friendly, and which aren't? (fieldwork)	How can we create more bee-friendly environments?	What are the daily weather conditions over a week and how do they affect bee activity?	Which days were the best days for bee pollination and nectar gathering? Why?
Т	What are the features of different bee habitats?	What will I include in my design for a bee habitat? What materials and joining techniques will I use?	How well can I follow my design to create a bee habitat? (1)	How well can I follow my design to create a bee habitat? (2)	How helpful was my design? What am I pleased with in my finished bee habitat?	How can I present my design project to others?
COMPUTING	How do I read and follow an algorithm using a bee bot?	What will my 'pollinator pitstop' bee bot mat look like?	What algorithm will I need to write to follow a bee trail?	What positional language will I need to explain my algorithm?	What is debugging and how do I do it?	How will I apply my learning to complete bee bot challenges?

BE	How can I move through a space without touching anyone else?	How do honey bees use movement to communicate?	How can I use dance to communicate a message to others?	What honey bee moves can l incorporate into a group dance?	How can we adapt our honey bee dance to fit with music?	How can we use what we have practised to perform a honey bee dance?
MUSIC	What music has been created around bees and what is my opinion of it?	What musical genres are these pieces of music from?	How can I identify the beat, pitch and tempo in a piece of music?	What happens if I change the beat, pitch or tempo of my chosen bee music?	What effect does layering voices and instruments have in music?	How could I change my performance to improve it?
PSHE	What role do I have in my family and school groups?	What makes a good friend and how can we work	Why is sugar good for bees but not for me?	How do bees help us to grow food?	What is respect and how can I show that I am respectful?	What can I do to ensure that bees are taken care of?
OUTDOOR LEARNING	Look for different bees to examine their behaviours (or have a beekeeping society bring some in)	Look for bee habitats in the local area	'Flower Walk' in school grounds or local park to identify bee-friendly flowers	Make a bee habitat outside (link to DT)	Practise bee dance outside	Perform bee dance outside