

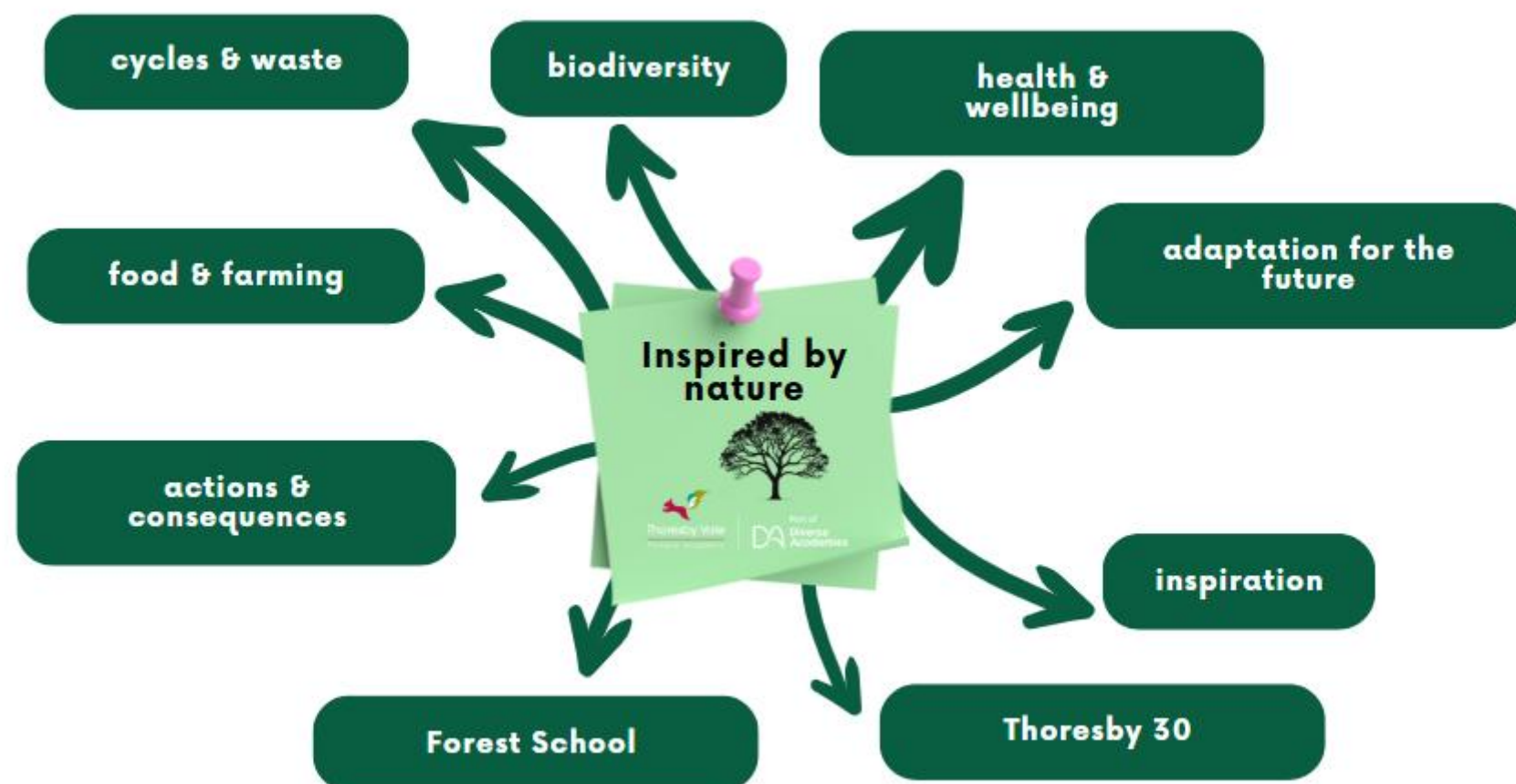


Thoresby Vale
Primary Academy

Natural Curriculum

We empower | We respect | We care

Part of  **Diverse
Academies**



Strand	Key ideas	Strand	Key ideas
Actions and consequences	<ul style="list-style-type: none"> Energy and climate change - every action counts Monitoring and conserving energy Exploring the correlation between the use of fossil fuels and climate change. Developing an understanding of how clean, renewable energy and responsible energy use can save money, reduce emissions, and help us transition to a greener, healthier future 	Adaptations for the future	<ul style="list-style-type: none"> Adapting and changing for the future Nature changes and adapts to survive and thrive Using opportunities from natural designs to inform what we create (biomimicry) Considering what we can learn from the past and nature that will help us to live more sustainably now and, in the future
Cycles and waste	<ul style="list-style-type: none"> Nature works in cycles that produce no waste Natural cycles feed waste back into the cycle of life Learn how we too can live in ways that promote circularity and are waste-free Reduce, reuse, recycle 	Food and farming	<ul style="list-style-type: none"> Experience planting seeds and growing food, progressing towards a deeper understanding of the story of our food. Building knowledge of how our food is grown/produced and seasonality. Learning about what a healthy sustainable diet looks like, nutritionally and environmentally.
Biodiversity	<ul style="list-style-type: none"> Helping children appreciate the incredible biodiversity that exists in the world around them, locally and globally. Appreciating the awe and wonder of the natural world and understanding the role they can play in protecting it Becoming an expert in local biodiversity 	Health and wellbeing	<ul style="list-style-type: none"> A sustainable system is healthy and whole. Any healthy system is in a dynamic balance. Developing an awareness of what we need to be well and what our world needs to be well Understanding that a range of factors ensure our wellbeing and the wellbeing of the world around us

	Early Years	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Actions & consequences	<ul style="list-style-type: none"> Being part of a new school community Dressing for the weather / season Actions have consequences 'Environmental manners' 	<ul style="list-style-type: none"> Actions have consequences Oneness – Share traditional local stories to relate to our local culture (Robin Hood) Food miles Looking after the school garden Weather and climate Types of clouds and associated weather Survey travel to school Human activity and air pollution Manage a compost system in school Personal actions to save energy Electricity uses in the classroom Saving money and energy Monitoring energy usage Action to improve energy consumption in school 	<ul style="list-style-type: none"> Global community and connection across the world Celebrate Earth Hour (March) Travelling to school and having the biggest / smallest impact Promoting sustainable travel and walk to school week (May) Native tree identification guide Understand how trees help cool the planet and provide oxygen Tree survey of the local area / school grounds Fair trade Natural processes to take greenhouse gases out of the atmosphere Measuring energy Taking action to reduce energy consumption Climate impact of burning coal, oil and gas Climate change Great people who work to save the planet 	<ul style="list-style-type: none"> Lead on sustainability issues Suggest ways to consume less and use more local produce The school lunch and food miles and transport methods Link between burning fossil fuels and climate change Key carbon sinks Ocean systems and the effect the weather systems Monitor school energy use Lead on monitoring school energy and promote reducing energy Energy efficiency Carbon footprint of the school Reducing their own carbon footprint Positive solutions to support the climate in the local area Great people who work to save the planet Lead a change maker project Food miles linked to global trade.
Cycles & waste	<ul style="list-style-type: none"> Clean up their own waste Leave places as we find them and take rubbish with us Begin to understand that plants have a cycle 	<ul style="list-style-type: none"> Meaning of reduce, reuse, recycle, reimagine, repurpose & recreate Cycle of life – seed, plant, trees, lambs etc (<i>ongoing through year</i>) Natural world doesn't create waste, but humans do Classify waste found in our local environment – what can be recycled? 	<ul style="list-style-type: none"> Repurposing different kinds of waste Monitor and manage the recycling system at school Water cycle works and conserving water Concept of 'holiday footprint' and how tourism affects our beaches Migratory cycles of different species and threats to these 	<ul style="list-style-type: none"> Effect of the moon on the sea Tide timetables Supporting migratory species that visit our local area Map out different cycles and the ways they are being threatened
Biodiversity	<ul style="list-style-type: none"> Forest habitats Species that live in the forest Butterfly species hatched Bugs and minibeasts in the local area 	<ul style="list-style-type: none"> Seasonal changes Looking after nature and wildlife in our school grounds / local area Natural materials Native wildflowers Rockpool wildlife Deciduous and evergreen trees Wildflower meadows to create habitats Marine habitats Coastal wildlife Different plants grow in different parts of the world 	<ul style="list-style-type: none"> Survey trees in the local area and identify which animals use them for habitats Term biodiversity Bees and other insects and their importance to our eco systems. Bee friendly habitats Species of bees UK river habitats Species living in our school grounds Species of UK bird Species in UK river habitats 	<ul style="list-style-type: none"> Map habitats within the school grounds on the DfE National Education Nature Park Nature Park Plan Importance of biodiversity within different local habitats Share their knowledge to educate others about the importance of local habitats Maintain a wetland habitat Classify species whilst pond dipping Educate others about local habitats Biodiversity of fauna, flora and habitats in the artic regions Biodiversity of our rainforests and why it is important to protect them Articulate their appreciation for the beauty, awe and wonder of nature's biodiversity and why it's important to preserve it.
Adaptation for the future	<ul style="list-style-type: none"> How creatures are adapted to live in the cold and how they keep warm Living things in the in the local environment and how they have adapted to live there 	<ul style="list-style-type: none"> Brilliant inventions that were inspired by nature The Great Fire of London and how change occurred as a result. Create a fire safety plan for our fire pit. 	<ul style="list-style-type: none"> Light cycles and how we see colour How animals have adapted to darkness New inventions for sustainable light sources Anglo-Saxons building in areas with natural resources How Roman's lived in an environmental and sustainable way 	<ul style="list-style-type: none"> Plastic waste and biodegradable plastics Packed lunches with zero waste Own personal skills and how they can use them to make a positive different to the planet Plan a change maker project Fast fashion

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Food & farming	<ul style="list-style-type: none"> Seasonal, local foods Celebrate harvest festival Seeds growing into plants Plant a seed and watch it grow Growing cycle of a plant and what plants need to grow Cycles of life on a farm Make jam and bread from local produce 	<ul style="list-style-type: none"> Lifecycles of plants and what plants need to grow Begin to appreciate the tastes, smells and textures of different foods Understand where our food comes from (spices, honey, chocolate) Taste seasonal fruit and vegetables Different types of different types of farms (local / global) 	<ul style="list-style-type: none"> Seasonal cycles of trees to identify harvest time for different trees Plant heritage fruit trees to create a community orchard Different foods and resources that we get from trees Where our food comes from and which foods are grown in the UK Provide homes for animals in trees (bat & bird boxes) Work with our kitchen team to source local / UK food for school meals. Find out and share why it is important to buy food locally & sustainably. 	<ul style="list-style-type: none"> Sustainable fishing Species of UK fish Regenerative farming systems and what we can do to reduce the amount of food we throw away Connection to people and places through the products we buy. Importance of looking after people and places – global food connections, food miles, fair trade, food from the sea Measure food miles to help make sustainable decisions Seasonal foods Self-sufficiency, food security and resilience
Health & wellbeing	<ul style="list-style-type: none"> Independent skills for personal hygiene – handwashing, brushing teeth etc Begin to understand the importance of time in nature to health Understand they can feel healthy, be healthy and live healthily in body and mind Spend time outside connecting with nature Share games and activities and enjoy time in nature together 	<ul style="list-style-type: none"> How to look after nature in our local environment Create local habitats to help animals survive Know that being active, outside and caring for nature makes them feel better Know that all animals and humans need food, water and shelter to survive Create a healthy meal and cook on the first pit Ways of wellbeing Importance of personal hygiene 	<ul style="list-style-type: none"> All things in nature are connected, including themselves Wellbeing is positively affected by being outside and eating together in nature 	<ul style="list-style-type: none"> Wellbeing is positively impacted by being active outside Natural disasters and keeping safe Functions of the human body that we need to survive and how nature helps to provide what we need for these functions – oxygen, food & water
Vocabulary	nature, weather, season, living	weather & climate, renewable & non-renewable energy, coal, nuclear, wind power, solar power, plastic pollution, water cycle, reduce, reuse, recycle, reimagine, repurpose & recreate	climate change, atmosphere, greenhouse effect, greenhouse gas emissions, carbon emission, carbon footprint, carbon dioxide, fossil fuels, renewable energy, landscape	carbon footprint, climate emergency, global warming, tipping points, intergovernmental panel on climate change, ecosystems, climate justice, carbon sinks, biodiversity, permaculture, conservation