purple mash

Supporting the National Curriculum 2014 with Purple Mash

Science

Contents

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Each year group contains examples of how the creative tools can be effectively used to support National Curriculum 2014. Looking at examples from year groups above and below may provide additional ideas.

Year 1
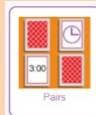
Plants

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees • Identify and describe the basic structure of a variety of common flowering plants, including trees.	Identifying Plants and Animals in The Local Area (2Publish)	http://www.purplemash.com/#pup/plantsandanimals	Guides and help with 2Count and 2Question. https://www.purplemash.com/#tab/teachers/guides_and_resources Printable resources and activities on plants suitable for KS1 https://www.purplemash.com/#tab/teachers/printable_resources/science_resources/printable_resources_science_plants Take the children on a walk around the school and count the frequency of trees in the area. Record the results on a pictogram using 2Count. https://www.purplemash.com/#app/tools/2count
	To Identify and Name A Variety of Common Plants (Labelling Activity 2DIY)	http://www.purplemash.com/site#games/2diy/flowerlabelling	
	To Identify and Name A Variety of Common Leaves (Labelling Activity 2DIY)	http://www.purplemash.com/site#game/2diy/leaflabelling	
	Sort into Plants and Animals (Sorting Activity 2DIY)	https://www.purplemash.com/app/folder/plantsvanimals_NEW	
	Label A Plant (2Quiz)	https://www.purplemash.com/#app/games/2diy/Plants_Labelling	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	Record finding of plants in the local area using the Gardener Mash Cam	https://www.purplemash.com/#app/mashcam/gardener_cam	Create a branching database using **2Question**. Children use this database to identify the names of common plants and trees.
	My Garden (**Paint Project**)	https://www.purplemash.com/#app/pap/home/garden	https://www.purplemash.com/#app/tools/2question

Animals, including Humans

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammal • Identify and name a variety of common animals that are carnivores, herbivores and omnivores • Describe and compare the structure of a variety of common animals (fish,	To Observe Differences Between Plants and Animals to Group Them (Sorting Activity **2Diy**)	https://www.purplemash.com/app/folder/plantsvanimals_NEW	**2Diy** and **2Quiz** resources, guides and help videos. https://www.purplemash.com/#tab/teachers/guides_and_resources/2diy_2quiz_resources
	To Identify and Name A Variety of Common Animals That Are Birds (Labelling Activity **2Diy**)	https://www.purplemash.com/#app/games/2diy/birds_labeling	
	Pet Captions (Writing Activity **2Publish**)	http://www.purplemash.com/#pup/petcaptions	Create a pairs game in **2Diy** where the children match the name of the animal to the picture.
	Simple City - The Vet	http://www.purplemash.com/#games/simplecitydest/vets	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
amphibians, reptiles, birds and mammals, including pets) • Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Simple City – The Zoo	http://www.purplemash.com/#games/simplecitydest/zoo	https://www.purplemash.com/#app/tools/2diy/Pairs Create a grouping activity in **2Quiz** where the children must decide if an animal is a carnivore, herbivore or omnivore and drag the picture of the animal to the correct category. https://www.purplemash.~~p/diyjs/2quizg
	2start English (Premium Product) – Animals	http://www.purplemash.com/#premium/2se	
	To Identify and Name A Variety of Common Animals That Are Carnivores (Grouping Activity **2Diy**)	http://www.purplemash.com/site#games/2diy/animal_grouping	
	Carnivores (Labelling Activity **2Diy**)	https://www.purplemash.com/app/folder/Carnivore_Labelling	
	Carnivore Quiz (**2Diy**)	http://www.purplemash.com/site#games/2diy/carnivore_quiz	
	Dog - Leaflet (Writing Activity **2Publish**)	http://www.purplemash.com/#leaflets/dogs	
	Safari Animals (Writing Activity **2Publish**)	http://www.purplemash.com/#pup/safarianimals	
	Dangerous Animals (Writing Activity **2Publish**)	http://www.purplemash.com/#pup/Vocabularydangeranimals	
	Describing Lambs (Writing Activity **2Publish**)	http://www.purplemash.com/#pup/lambs1	

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	Describe A Lion (Writing Activity 2Publish)	http://www.purplemash.com/#pup/lion	
	All About Cats (Writing Activity 2Publish)	http://www.purplemash.com/#pup/animals_allaboutcats	
	All About Dogs (Writing Activity 2Publish)	http://www.purplemash.com/#pup/animals_allaboutdogs	
	Goldfish – Paint Project (2Paint)	http://www.purplemash.com/#pap/animals/fishbowl	
	Bird – Paint Project (2Paint)	http://www.purplemash.com/#pap/animals/bird	
	Human Body – Labelling Game (2Diy)	https://www.purplemash.com/#app/game/2diy/humanbody_labelling	
	Human Senses -2Quiz Game (2Quiz)	https://www.purplemash.com/#app/games/2diy/Human_senses	

Everyday Materials

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Distinguish between an object and the material from which it is made • Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock • Describe the simple physical properties of a variety of everyday materials • Compare and group together a variety of everyday materials on the basis of their simple physical properties.	Matching Objects to Their Material	http://www.purplemash.com/site#game/2diy/matchingobjects	2Diy and 2Quiz resources, guides and help videos. https://www.purplemash.com/#tab/teachers/guides_and_resources/2diy_2quiz_resources
	Properties of Materials (Writing Activity **2Publish**)	http://www.purplemash.com/#pup/materialproperties	
	To Describe the Simple Physical Properties of a Variety of Everyday Materials (**2Diy**)	http://www.purplemash.com/site#game/2diy/matchingobjects	
	3 Little Pigs Painting Activity – (**2Paint**)	http://www.purplemash.com/#pap/fairy_stories/3_pigs	Draw the story and write a sentence about why bricks are best for a house.
	The 3 Little Pigs story board. (Writing Activity **2Publish**)	https://www.purplemash.com/#app/pup/threelittlepigs_story	Ask the children to explain why straw and sticks were not suitable for making houses.
	Construction Worker – **Mashcam**	https://www.purplemash.com/#tab/pm-home/tools/purplemashcams	Using the Mash Cams children can put themselves in the role of various characters to describe and explain why certain materials are good for making homes. https://www.purplemash.com/#tab/pm-home/tools/purplemashcams

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	Compare Different Materials (2Diy)	http://www.purplemash.com/site#game/2diy/matchingobjects	Children can use the grouping question in 2Quiz to create a quiz where others must sort the materials. https://www.purplemash.com/#app/diyjs/2quizg

Seasonal Changes

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
OBSERVE CHANGES ACROSS THE FOUR SEASONS OBSERVE AND DESCRIBE WEATHER ASSOCIATED WITH THE SEASONS AND HOW DAY LENGTH VARIES.	Seasons Quiz – 2Quiz activity	https://www.purplemash.com/app/games/2diy/Seasons_Quiz	Printable resource on seasons suitable for KS1. https://www.purplemash.com/#app/lessonplans/info/printables_science_seasons Use 2Count to record changes in the length of day between seasons. https://www.purplemash.com/#app/tools/2count
	Autumn – Paint Project (2Paint)	http://www.purplemash.com/#pap/nature/autumn	
	Winter – Paint Project (2Paint)	http://www.purplemash.com/#pap/nature/winter	
	Spring – Paint Project (2Paint)	http://www.purplemash.com/#pap/nature/spring	
	Summer – Paint Project (2Paint)	http://www.purplemash.com/#pap/nature/summer	
	Order the Photos Next to The Correct Season (2Diy)	http://www.purplemash.com/site#games/2diy/order_seasons	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	Create A Fact Sheet About Seasons (Writing project – **2Publish**)	http://www.purplemash.com/#leaflets/seasons_leaflet01	**2Count** Teachers Guide https://www.purplemash.com/#app/guides/2Count_Guide

Children use **2Animate** to create an animation demonstrating changes in the seasons.

https://www.purplemash.com/#app/tools/2ani |
| | Weather – Paint Project (**2Paint**) | http://www.purplemash.com/#pap/nature/weather | |
| | How Do the Seasons Affect Animals? (Writing project -**2Publish**) | http://www.purplemash.com/site#pup/Animals_and_seasons | |

Year 2

Living Things and Their Habitats

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Explore and compare the differences between things that are living, dead, and things that have never been alive • Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other • Identify and name a variety of plants and animals in their habitats, including micro-habitats	Sorting Living, Non-Living and Dead (2Quiz)	https://www.purplemash.com/#app/games/2diy/living_not_living	**2Quiz** Sort objects out into whether they are living, dead or have never been alive. https://www.purplemash.com/#app/diyjs/2quizg
	Adaption to A Temperate Climate (Publishing project – 2Publish)	http://www.purplemash.com/#pup/adaptation_temperate	**2Diy** and **2Quiz** resources, guides and help videos. https://www.purplemash.com/#tab/teachers/guides_and_resources/2diy_2quiz_resources
	Adaption to An Ocean Climate (Publishing project – 2Publish)	http://www.purplemash.com/#pup/adaptation_ocean	
	Adaption to A Tundra Climate (Publishing project – 2Publish)	http://www.purplemash.com/#pup/adaptation_tundra	**2Investigate** Resources https://www.purplemash.com/#tab/teachers/guides_and_resources/2inv_resourses
	Adaption to A Desert Climate (Publishing project – 2Publish)	http://www.purplemash.com/#pup/adaptation_desert	
	Adaption to A Tropical Climate (Publishing project – 2Publish)	http://www.purplemash.com/#postcards/tropical	

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	Identify Common Animals Which Are Birds (**2Diy**)	http://www.purplemash.com/site#games/2diy/birds_labelling	
• Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food	Polar Explorer Game (**2Diy**)	http://www.purplemash.com/#games/2diy/Polar_Pairs	
	Mammals and Reptiles (**2Diy**)	http://www.purplemash.com/site#games/2diy/Mammals_Reptiles	
	Adaption to A Tundra Climate (**Publishing project – 2Publish**)	http://www.purplemash.com/#pup/adaptation_tundra	
	Identifying Habitats (Publishing project – **2Publish**)	http://www.purplemash.com/#pup/habitats2	
	Food Chains (Publishing project - **2Publish**)	http://www.purplemash.com/#pup/habitats	Printable resource on Food Chains https://www.purplemash.com/#app/lessonplans/info/printables_science_food_chains
	Food Chains – (Whole Class Quiz – **2Quiz**)	https://www.purplemash.com/app/game/2diy/Food_chains	
	Minibeasts Database – (**2Investigate**)	https://www.purplemash.com/#app/tools/2inv	Use **2Investigate** and open the minibeasts document. Children sort animals by habitat.

Plants

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• 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.	Seed Dispersal (Publishing project – **2Publish**)	http://www.purplemash.com/#pup/dispersal	**2Animate** guide for teachers https://www.purplemash.com/#app/lessonplans/info/2Animate_Guide
	Plant Diary (Publishing project - **2Publish**)	http://www.purplemash.com/#pup/plants2	
	All About Germination (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/germination	
	Growing Plants (Publishing project - **2Publish**)	http://www.purplemash.com/#pup/plants	
	Use **2Animate** To Animate How A Plant Grows	http://www.purplemash.com/#tools/2ani	
	Plants Labelling – Growing (**2DIY**)	https://www.purplemash.com/#app/games/2diy/plantslabelling	
	Gardener – **Mashcam**	https://www.purplemash.com/#app/mashcam/gardener_cam	Children take the role of a gardener and describe what a seed needs to grow into a healthy plant.

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	Growing and Keeping Healthy – **Printable** resource activity	https://www.purplemash.com/#app/lessonplans/info/printables_science_healthyplants	Printable resource on Plants suitable for KS1. https://www.purplemash.com/#tab/pm-home/science/science_resources/printable_resources_science_plants

Animals, Including Humans

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Notice that animals, including humans, have offspring which grow into adults • Find out about and describe the basic needs of animals, including humans, for survival (water, food and air • Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	Adult and Baby Animals (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/adultandbabyanimals	Create a pairs game in **2Diy** where the children match the baby animal to the adult animal. https://www.purplemash.com/#app/tools/2diy/Pairs
	Adult and Baby Animals Matching Cards - **Printable** resource activity	https://www.purplemash.com/site#app/lessonplans/info/printables_science_adult_baby_animals	
	Butterfly Life Cycle (Publishing project -**2Publish**)	https://www.purplemash.com/#app/leaflets/butterfly_life_cycle_leaflet	
	Butterfly Life Cycle – **Printable** resource activity	https://www.purplemash.com/#app/lessonplans/info/pri	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
		ntables_science_lifecyclebutterfly	Create a series of pictures in **2Quiz** showing a baby growing in stages from baby to adulthood and then put the images in order. https://www.purplemash.com/#app/tools/2diy/Sequencing
	Growing and Changing (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/growingandchanging	
	Growing and Changing – Matching stages to descriptions - **Printable** resource activity	https://www.purplemash.com/site#app/lessonplans/info/printables_science_growing_changing	
	Plan A Meal (Publishing project - **2Publish**)	http://www.purplemash.com/#pup/planameal	
	Healthy Eating (Publishing project - **2Publish**)	http://www.purplemash.com/#pup/healthy	
	Favourite Fruit (Publishing project - **2Publish**)	http://www.purplemash.com/#pup/favfruit	
	Create A Lunch Menu (Publishing project -**2Publish**)	http://www.purplemash.com/#leaflets/lunchmenu	
	5 A Day Leaflet (Publishing project - **2Publish**)	http://www.purplemash.com/#leaflets/five_a_day	
	Find Out About the Basic Needs of Animals (Publishing project - **2Publish**)	http://www.purplemash.com/site#pup/animalneeds	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	What Happens During Exercise (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/hb_exercise_what_happens	Printable resources on Health and Growth https://www.purplemash.com/site#tab/pm-home/science/health_and_growth/printable_resources_science_health_and_growth
	Exercise Poster (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/hb_exercise_poster	

Uses of Everyday Materials

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Identify and compare the suitability of a variety of everyday materials • Find out how the shapes of solid objects made from some materials can be changed by squashing	Properties of Materials (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/materialproperties	 Create a quiz asking the children which material would be most suited to perform a given task https://www.purplemash.com/#app/diyjs/2quiz
	Describe What Happens to The Objects When You Apply A Force (Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/applyingforces	
	Construction worker **Mashcam**	https://www.purplemash.com/site#app/mashcam/construction_worker_cam	Ask the children to consider the construction of various items such as a new school fish tank.

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
			What materials are suitable and why?

Year 3

Plants

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers • Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant • Investigate the way in which water is transported within plants • Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal	Labelling A Flower –**2Quiz**	https://www.purplemash.com/site#app/games/2diy/Plants_Labelling	Printable resources on Plants https://www.purplemash.com/site#tab/pm-home/science/plants/printable_resources_science_plants Using **2Graph**, Measure the growth of a plant over a period and record the results on a line graph. https://www.purplemash.com/#app/jsapps/graph Using **2Connect**, design an experiment to investigate where a plant grows best.
	Label Different Types of Flowers – **2Diy**	http://www.purplemash.com/site#games/2diy/flowerlabelling	
	Plant Diary - (Publishing project - **2Publish**)	http://www.purplemash.com/#pup/plants2	
	Growing Plants - (Publishing project - **2Publish**)	http://www.purplemash.com/#pup/plants	
	To Investigate the Way in Which Water Is Transported Within Plants **2Diy**	http://www.purplemash.com/site#games/2diy/transpiration	
	Seed Dispersal - (Publishing project - **2Publish**	http://www.purplemash.com/#pup/dispersal	
	All About Germination - (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/germination	

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			https://www.purplemash.com/#app/tools/2Connect
	Labelling A Flower – 2Diy	http://www.purplemash.com/site#games/2diy/life_cycle_of_a_plant	Using **2Animate**, create an animation to show how a plant grows or the life cycle of a plant. https://www.purplemash.com/#app/tools/animate Using the **Mashcams**, children get in role as a farmer. What would they need to consider if they wanted to grow as many potatoes as they could in a certain size field. What requirements for growth could be affected? https://www.purplemash.com/#app/mashcam/farmer_cam

Animals Including Humans

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat • Identify that humans and some other animals have skeletons and muscles for support, protection and movement	Healthy Eating - (Publishing project - 2Publish)	http://www.purplemash.com/#pup/healthy	Printable resources on Food https://www.purplemash.com/#tab/pm-home/science/food/printable_resources_science_food Printable resources on Health https://www.purplemash.com/#tab/pm-home/science/health_and_growth/printable_resources_science_health_and_growth
	Food Groups- (Publishing project - 2Publish)	http://www.purplemash.com/#pup/foodgroups	
	Food Groups – 2Quiz	https://www.purplemash.com/#app/games/2diy/Food_Groups	
	5 A Day Leaflet - (Publishing project - 2Publish)	http://www.purplemash.com/#leaflets/five_a_day	
	All About Skeletons- (Publishing project -2Publish)	http://www.purplemash.com/#pup/hb_skeleton_allabout	Using 2Diy3D Create a game where the player must collect healthy foods and ignore the unhealthy foods. https://www.purplemash.com/#app/games/2DIY3D
	Describing Joints-(Publishing project - 2Publish)	http://www.purplemash.com/#pup/hb_describing_joints	
	Muscles-(Publishing project - 2Publish)	http://www.purplemash.com/#pup/hb_muscles	

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	Plan A Healthy Meal – **Printable**	https://www.purplemash.com/#app/lessonplans/info/printables_science_healthy_foods	Use **2Quiz** sorting question type and ask the children to sort food into essential and not essential for a healthy diet. https://www.purplemash.com/#app/diyjs/2quiz Using **2Respond** creator, send the children an email from a nutritionist and ask the children to email back a healthy meal. https://www.purplemash.com/#tab/pm-home/tools/2email

Rocks

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties • Describe in simple terms how fossils are formed when things that have lived are trapped within rock • Recognise that soils are made from rocks and organic matter.	Types of rock -(Publishing project - **2Publish**)	http://www.purplemash.com/site#pup/Types_of_Rock	Using **2Animate**, create a simple animation to show how fossils are formed.
	All About Fossils -(Publishing project -**2Publish**)	https://www.purplemash.com/site#app/pup/fossils_factfile	https://www.purplemash.com/#app/tools/animate
	Fossil Leaflet - (Publishing project - **2Publish**)	https://www.purplemash.com/site#app/leaflets/fossils_leaflet	
	Fossil Quiz – **2Quiz**	https://www.purplemash.com/site#app/game/2diy/Fossilisation_order_Quiz	Using **2Question**, create a branching database to help sort various rocks according to their appearance and simple physical properties.
	The Stages of Fossilisation - (Publishing project -**2Publish**)	https://www.purplemash.com/site#app/pup/The_stages_of_fossilisation	https://www.purplemash.com/#app/tools/2question
	All About Dinosaurs -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/dinosaurs_allabout	
	Dinosaur Captions -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/dinosaurs_captions	Research the life of Mary Anning and write your findings in the fact file.
	Comparing Dinosaurs -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/dinosaurs_comparing	https://www.purplemash.com/#app/pup/Mary_Anning_allabout
	Describing Dinosaurs -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/dinosaurs_describing	

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	Dinosaur News - (Publishing project - **2Publish**)	http://www.purplemash.com/#pup/dinosaurs_news	Printable resources on Rocks https://www.purplemash.com/site#tab/pm-home/science/rocks_and_soil/printable_resources_science_rocks_and_soil
	Types of Soil – **2Diy**	https://www.purplemash.com/app/quiz/science_soil_quiz	

Light

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Recognise that they need light in order to see things and that dark is the absence of light • Notice that light is reflected from surfaces • Recognise that light from the sun can be dangerous and that there are ways to protect their eyes • Recognise that shadows are formed when the light from a light source is blocked by a solid object	Sources of Light-(Publishing project - **2Publish**)	http://www.purplemash.com/#pup/lightorreflector	Printable resources on Sources of light https://www.purplemash.com/site#app/lessonplans/info/printables_science_sources_of_light
	Reflective and Absorbent-(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/lightreflectabsorb	Use the grouping question in **2Quiz** and sort clothes into those that will reflect light and those that will not. https://www.purplemash.com/#app/diyjs/2quiz
	All About the Sun and It's Dangers-(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/Dangers_of_the_Sun	Printable resources on Sun Safety

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Find patterns in the way that the size of shadows change.			https://www.purplemash.com/site#app/lessonplans/info/printables_science_sun_safety
	Shadows – **Printable**	https://www.purplemash.com/site#app/lessonplans/info/printables_science_shadows	Using **2Graph**, investigate how changing the distance of a light source from an object affects shadow size. Record results using 2graph and make interpretation from the data. https://www.purplemash.com/site#app/tools/2graph
	Sundial – **Printable**	https://www.purplemash.com/site#app/lessonplans/info/printables_science_sundial	Children create their own sundial and record where the shadow is formed at set intervals throughout a day.

Forces and magnets

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Compare how things move on different surfaces • Notice that some forces need contact between two objects, but magnetic forces can act at a distance • Observe how magnets attract or repel each other and attract some materials and not others • Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials • Describe magnets as having two poles • Predict whether two magnets will attract or repel each other, depending on which poles are facing.	Forces in Action 1-(Publishing project -2Publish)	http://www.purplemash.com/#pup/forces	Children could create a ramp and cover with different surfaces. Measure the distance a car rolls down each surface and record using 2Graph. https://www.purplemash.com/#app/jsapps/graph Within 2Quiz, use the sorting question and sort materials into those that are magnetic and those that are not. https://www.purplemash.com/#app/diyjs/2quiz
	Forces in Action 2-(Publishing project -2Publish)	http://www.purplemash.com/#pup/forces2	
	Forces in Action 3-(Publishing project -2Publish)	http://www.purplemash.com/#pup/forces3	
	Magnets-(Publishing project -2Publish)	http://www.purplemash.com/#pup/magnets	
	Are They Magnetic-(Publishing project -2Publish)	http://www.purplemash.com/#pup/are_they_magnetic	
	Magnets investigation – Printable	https://www.purplemash.com/site#app/lessonplans/info/printables_science_forces_magnets	
			Using 2Investigate, children carry out an investigation as to what materials stop a

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
			magnet from being attracted to a paperclip and record their results in 2 investigate, making scientific reasoning as to why. https://www.purplemash.com/#app/tools/2inv

Year 4

Living Things and Their Habitats

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Recognise that living things can be grouped in a variety of ways. • Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. • Recognise that environments can change and that this can sometimes pose dangers to living things.	All About Birds -(Publishing project - **2Publish**)	http://www.purplemash.com/#pup/birds	Using **2Publish plus**, select an animal from somewhere else in the world except from where they live and write about how it has been adapted to live in that environment. https://www.purplemash.com/#tab/pm-home/tools/2_publish_plus Using **2Quiz**, create a sorting question (Carroll diagram) and ask the children to sort animals into two groups e.g. amphibians and reptiles.
	All About Fish -(Publishing project - **2Publish**)	http://www.purplemash.com/#pup/fish	
	All About Amphibians -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/amphibians	
	All About Reptiles -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/reptiles	
	All About Mammals -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/mammals	
	All About Nocturnal Animals -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/animals_nocturnalallabout	
	Sorting into Mammals and Reptiles (**2Diy**)	http://www.purplemash.com/site#games/2diy/Mammals_Reptiles	
	Sorting into Vertebrates and Invertebrates (**2Diy**)	http://www.purplemash.com/site#games/2diy/vertsandinverts	

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National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	Adapt the Pets Database to Include More Information About the Animals. For Example, Nocturnal, Carnivore	http://www.purplemash.com/#2inv/pets	https://www.purplemash.com/#app/diyjs/2quiz

Create a branching database, using **2Question**, and sort animals using classification keys. https://www.purplemash.com/#app/tools/2question |
| | Oil Slick News -(Publishing project - **2Publish**) | http://www.purplemash.com/#pup/oilnews | |
| | Habitats – Grouping Organisms **Printable**. | https://www.purplemash.com/#app/lessonplans/info/printables_science_habitats | |

Animals, Including Humans

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Describe the simple functions of the basic parts of the digestive system in humans
• Identify the different types of teeth in humans and their simple functions
• Construct and interpret a variety of food chains, | Label the Digestive System (**2Diy**) | http://www.purplemash.com/site#games/2diy/digestive_system | Use the sorting question in **2Quiz** to highlight food that is damaging to teeth and food which isn't.

https://www.purplemash.com/#app/diyjs/2quiz |
	Digestion -**Printable**	https://www.purplemash.com/#app/lessonplans/info/printables_science_digestion	
	Healthy Teeth Leaflet -(Publishing project -**2Publish**)	http://www.purplemash.com/#leaflets/healthyteeth	
	Healthy Teeth -(Publishing project - **2Publish**)	http://www.purplemash.com/#pup/teeth	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
identifying producers, predators and prey.	Human Teeth – **Printable**	https://www.purplemash.com/#app/lessonplans/info/printables_science_human_teeth	Use the labelling question in **2Quiz** and take or draw a picture of the digestive system and label accordingly. https://www.purplemash.com/#app/diyjs/2quiz Plan a fair experiment for testing the effects of sugary drinks on egg shell coating using the **Fair Test** pup. https://www.purplemash.com/#app/pup/fair_test
	Human Teeth Quiz – (**2Quiz**)	https://www.purplemash.com/#app/games/2diy/Human_teeth	
	Identifying my own teeth – **Printable**	https://www.purplemash.com/#app/lessonplans/info/printables_science_my_teeth	
	Food Chain -(Publishing project - **2Publish**)	http://www.purplemash.com/#pup/habitats	
	Food Chain Quiz (**2Quiz**)	https://www.purplemash.com/#app/game/2diy/Food_chains	
	Food Chain – **Printable**	https://www.purplemash.com/#app/lessonplans/info/printables_science_food_chains	

States of Matter

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Compare and group materials together, according to whether they are solids, liquids or gases • Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees celsius (°c) • Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	Solids, Liquids and Gases -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/solidsliquidsgases	Use the experiment planner in **2Connect** to plan out an experiment to test what happens to materials when they are heated or cooled.
	Reversible and Irreversible Changes - (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/reversechange	
	Water Cycle -(Publishing project - **2Publish**)	http://www.purplemash.com/site#pup/watercycle	https://www.purplem m/#app/tools/2Connect
	Water Cycle Developing Tray activity	https://www.purplemash.com/#app/devtray/The_water_cycle_dev_tray	Using the grouping option within **2Quiz**, sort materials out into three categories – solid, liquid and gas.
	Water Cycle	https://www.purplemash.com/app/folder/water_cycle	
	Fair Test -(Publishing project - **2Publish**)	https://www.purplemash.com/#app/pup/fair_test	https://www.purplemash.com/#app/diyjs/2quizg

Sound

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Identify how sounds are made, associating some of them with something vibrating • Recognise that vibrations from sounds travel through a medium to the ear • Find patterns between the pitch of a sound and features of the object that produced it • Find patterns between the volume of a sound and the strength of the vibrations that produced it • Recognise that sounds get fainter as the distance from the sound source increases.	How Different Sounds Are Produced and The Way That Sound Travels (2Quiz)	http://www.purplemash.com/site#games/2diy/how_sounds_are_made	Ask the children to explore a range of sound making items and then record them using 2Sequence. Get them to order the recording from loudest to quietest. https://www.purplemash.com/#app/tools/2seq Explore premade short clips in 2sequence. Ask the children to create a composition which demonstrates scales. Get them to explain what is happening for us to hear a change in pitch. https://www.purplemash.com/#app/tools/2seq
	How Sounds Are Made. – Slide Show	http://www.purplemash.com/site#bloglinks/sound_slideshow	
	How Sounds Are Made - Leaflet - (Publishing project -2Publish)	http://www.purplemash.com/site#leaflets/Sound	
	Sound Postcard-(Publishing project - 2Publish)	http://www.purplemash.com/site#postcards/soundpostcard	
	Guitarist – Mashcam	https://www.purplemash.com/#app/mashcam/guitarist_cam	
	Absorbing Sound - Printable	https://www.purplemash.com/#tab/pm-home/science/sound/printable_resources_science_sound	
	Sound Insulation-(Publishing project - 2Publish)	https://www.purplemash.com/#app/pup/Sound_insulation	
	How Humans Hear – (2Quiz)	https://www.purplemash.com/#app/games/2diy/Hearing	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	Fair Test - (Publishing project - **2Publish**)	https://www.purplemash.com/#app/pup/fair_test	Using **2Animate**, children to produce an animation which models the process of sound travelling from a source to the ear through different mediums. https://www.purplemash.com/#app/tools/2ani

Electricity

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Identify common appliances that run on electricity • Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. • Identify whether or not a lamp will light in a simple series circuit,	To Sort Objects into Electrical and Non-Electrical (**2Quiz**)	https://www.purplemash.com/app/game/2diy/electricalnotelectrical_new	The following resource could be adapted to suit Year 4 pupils. KS2 Circuits Practical Enquiry – **Printable** https://www.purplemash.com/#app/lessonplans/info/printables_science_circuits_practical_enquiry
	Electrical Safety Leaflet - (Publishing project -**2Publish**)	https://www.purplemash.com/#app/leaflets/Electrical_Safety	
	Electricity in The Home - (Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/Electricity_in_the_home	

based on whether or not the lamp is part of a complete loop with a battery. • Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. • Recognise some common conductors and insulators, and associate metals with being good conductors.	Electrical Components – (Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/How_a_bulb_lights_up	**2Quiz** suggestions: Use the sorting question and ask the children to sort appliances in the house that need electricity to work. • Take images of a circuit and upload to the labelling question in 2Quiz. Children to name the correct parts by dragging labels. • Use the image-based question and upload various circuits. Children must decide which circuits will work and what will happen when power is applied. https://www.purplemash.com/#app/diyjs/2quiz **2DIY Games** Children can create their own games where points are scored or lost due to various properties of objects such as conductor, insulator etc.
	How A Bulb Works in A Circuit -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/How_a_bulb_lights_up	
	Ordering Brightness of Bulbs - (Publishing project -**2Publish**)	https://www.purplemash.com/#app/tools/2pubextra/Ordering_the_brightness_of_the_bulb	
	Electrical Symbols Pairs – (**2Quiz**)	https://www.purplemash.com/#app/games/2diy/Electrical_Symbols_Pairs	
	Electrical Engineer – **Mashcam**	https://www.purplemash.com/#app/mashcam/Electrical_engineer_cam	
	Thomas Edison Fact files - (Publishing project -**2Publish**)	https://www.purplemash.com/#tab/pm-home/science/famous_scientists/thomas_edison	

			https://www.purplemash.com/#tab/pm-home/tools/2diynew

Year 5

Living Things and Their Habitats

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. • Describe the life process of reproduction in some plants and animals.	Life Cycle of a Butterfly - (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/minibeasts_butterflylifecycle	The following resource could be adapted to suit Year 5. Butterfly Life Cycle - **Printable**. https://www.purplemash.com/#app/lessonplans/info/printables_science_lifecyclebutterfly
	Life Cycle of a Butterfly - (Publishing project -**2Publish**)	http://www.purplemash.com/#leaflets/butterflylifecycle	
	All About Germination - (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/germination	Using **2Investigate**, produce a database of amphibians, insects, mammals, or birds from around the world.
	Adult and Baby Animals - (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/adultandbabyanimals	https://www.purplemash.com/#app/tools/2inv

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	Life Cycle of a Plant – (**2Diy**)	https://www.purplemash.com/#app/games/2diy/life_cycle_of_a_plant	Using the lesson Coding Principles – Handling Input create a simple quiz about the life cycle of an animal https://www.purplemash.com/app/code/codeprinciples/2codehandlinginput-en_us

Animals, Including Humans

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Describe the changes as humans develop to old age.	Growing and Changing - (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/growingandchanging	Using **2Quiz**, create a labelling activity to show what happens to the body of a boy and girl as they get older. https://www.purplemash.com/pp/diyjs/2quiz
	Growing and Changing – **Printable**	https://www.purplemash.com/#app/lessonplans/info/printables_science_growing_changing	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	Biologist **Mashcam**	https://www.purplemash.com/#app/mashcam/biologist_cam	Create a sorting activity in **2Quiz** and ask the children to sort changes onto male changes, female changes, and changes to both sexes. https://www.purplemash.com/#app/diyjs/2quiz Using **2Blog**, ask the children to respond to a blog about changes as we get older. An excellent way for encouraging thinking and stimulating discussions. https://www.purplemash.com/app/link/2blogchildren#/app/admin/home

Properties and Changes of Materials

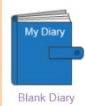| National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. • Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution. • Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating. • Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday	To Compare the Features and Properties of Some Natural and Manmade Materials (**2Quiz**)	https://www.purplemash.com/app/folder/naturalandmanmade_NEW	Using **2Quiz**, ask the children to create a Venn diagram with specific criterion. For example, they could use it to sort materials according to their various properties such as transparency, rigidity, responses to magnets etc. https://www.purplemash.com/#app/diyjs/2quizg Using **2Investigate**, create a database of different materials and their properties. Children write various questions and ask their peers to answer them by sorting the database for appropriate information.
	Describe the Properties of Materials -(Publishing project - **2Publish**)	http://www.purplemash.com/site#pup/Materials	
	Compare Materials -(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/comparethematerials	
	Irreversible Changes -(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/irreversiblechanges	
	Reversible Changes -(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/reversiblechanges	
	Solids Liquids and Gases - (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/solidsliquidsgases	
	Fair Test Experiment -(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/fair_test	

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National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
materials, including metals, wood and plastic. • Demonstrate that dissolving, mixing and changes of state are reversible changes. • Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	Reversible Changes -(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/reversiblechanges	https://www.purplemash.com/#app/tools/2inv Using **2Question,** design a branching database to separate various materials by asking questions about their properties.
	Irreversible Changes -(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/irreversiblechanges	Use **2Connect** to plan out an experiment to test for reversible and irreversible changes. https://www.purplemash.com/#app/tools/2Connect Using the **blank diary**, use a camera and record what happens each day when you try to separate two materials and show reversible change e.g. salt and water. https://www.purplemash.com/#app/pup/Blank_diary

Earth and Space

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Describe the movement of the earth, and other planets, relative to the sun in the solar system. • Describe the movement of the moon relative to the earth. • Describe the sun, earth and moon as approximately spherical bodies. • Use the idea of the earth's rotation to explain day and night and the apparent movement of the sun across the sky.	The Planets -(Publishing project - **2Publish**)	http://www.purplemash.com/#pup/planetorder	Famous Scientists – Fact files https://www.purplemash.com/#tab/pm-home/science/famous_scientists Space **Printables** • Day & Night • Geocentric & Heliocentric • The Planets – Movement • The Planets – Order • Planet Fact Cards • Planet Fact Cards (Blank) https://www.purplemash.com/#tab/pm-home/science/science_resources/
	Day and Night -(Publishing project - **2Publish**)	http://www.purplemash.com/site#pup/earth_movement	
	Planet Profile -(Publishing project - **2Publish**)	http://www.purplemash.com/#pup/planetprofile	
	Movement of the Earth -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/earth_movement	
	Movement of the Moon -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/moon_movement	
	Solar System Leaflet -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/leaflets/solarsystem	

	Space Information Leaflet - (Publishing project -**2Publish**)	https://www.purplemash.com/#app/leaflets/spaceinformation_leaflet_2	printable_resources_science_space
	Neil Armstrong -(Publishing project - **2Publish**)	https://www.purplemash.com/#app/pup/neilarmstrong_interest	Use **2investigate** to get the children to interrogate a database on the planets.
	Interview with Neil Armstrong - (Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/neilarmstrong_interview	https://www.purplemash.com/#app/tools/2inv
	Moon Landing News -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/moon_landing1	Using **2Diy 3D**, create a 3D game where the children must collect the planets and avoid the asteroids.
	Moon Landing News 2 -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/moon_landing2	https://www.purplemash.com/#tab/pm-home/tools/2diygaming
	Moon Landing Research -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/moon_landing_research	
	Neil Armstrong – **2Respond**	https://www.purplemash.com/app/2email/2respond/neilarmstrong_2respond#/chimp	Use **2Blog** to create a class blog where the children can save any research they complete to support the study of Earth and Space.

2Blog

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| | Astronaut – **Mashcam** | https://www.purplemash.com/#app/mashcam/astronaut_cam | https://www.purplemash.com/app/link/2blogchildren#/app/admin/home

Children can use **2Animate**, to create an animation which demonstrates day and night.

https://www.purplemash.com/#app/tools/2ani |

Forces

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Explain that unsupported objects fall towards the earth because of the force of gravity acting between the earth and the falling object. • Identify the effects of air resistance, water resistance and friction, that act between moving surfaces. • Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.	Forces in Action 1 -(Publishing project -2Publish)	http://www.purplemash.com/#pup/forces	Create a graph to show how much force is needed to drag object over different surfaces. https://www.purplemash.com/#app/jsapps/graph Plan a fair test using this publishing resource template. https://www.purplemash.com/#app/pup/fair_test Create a vehicle to see how far it moves down different surfaces. Use 2Design and Make to create.
	Forces in Action 2 -(Publishing project -2Publish)	http://www.purplemash.com/#pup/forces2	
	Forces in Action 3 -(Publishing project -2Publish)	http://www.purplemash.com/#pup/forces3	
	Isaac Newton - (Publishing project - 2Publish)	https://www.purplemash.com/#app/pup/Isaac_Newton_allabout	
	Types of Forces – Printable	https://www.purplemash.com/#app/lessonplans/info/printables_science_forces_types	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	Isaac Newton – 2Respond	https://www.purplemash.com/app/2email/2respond/isaacnewton_2respond	the top of the vehicle to go over the chassis. https://www.purplemash.com/#app/tools/2dam Create a mind map to plan an experiment to identify the effects of friction on a moving object. https://www.purplemash.com/#app/tools/2Connect

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Year 6

Living Things and Their Habitats

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals • Give reasons for classifying plants and animals based on specific characteristics.	All about Birds -(Publishing project - **2Publish**)	https://www.purplemash.com/#app/pup/birds	Famous Scientists – Fact files https://www.purplemash.com/#tab/pm-home/science/famous_scientists Animals – **Printable** resources https://www.purplemash.com/#tab/pm-home/science/animals/printable_resources_science_animals Ask the children to use **2Question** to make a classification branching database.
	All About Fish -(Publishing project - **2Publish**)	https://www.purplemash.com/#app/pup/fish	
	All About Amphibians -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/amphibians	
	All About Reptiles -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/reptiles	
	All About Mammals -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/mammals	
	All About Nocturnal Animals - (Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/animals_nocturnalallabout	
	Microorganisms Leaflet -(Publishing project -**2Publish**)	https://www.purplemash.com/#app/leaflets/microorganisms_leaflet	

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National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	All About Microorganisms - (Publishing project -2Publish)	https://www.purplemash.com/#app/pup/microorganisms_allabout	https://www.purplemash.com/#app/tools/2question Use 2investigate to create a collaborative database on classification. https://www.purplemash.com/#app/tools/2inv

Animals, Including Humans

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. • Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.	All About Organs -(Publishing project -2Publish)	http://www.purplemash.com/#pup/hb_allabout_organs	The Human Body – Printable resources • Circulation – Blood • Circulation – Heart • Circulation – Lungs
	What Happens During Exercise - (Publishing project -2Publish)	http://www.purplemash.com/#pup/hb_exercise_what_happens	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Describe the ways in which nutrients and water are transported within animals, including humans.	Exercise Poster -(Publishing project - **2Publish**)	http://www.purplemash.com/#pup/hb_exercise_poster	https://www.purplemash.com/#tab/pm-home/science/human_body/printable_resources_science_humanbody

Health and Growth – **Printable** resources

• Exercise

https://www.purplemash.com/#tab/pm-home/science/health_and_growth/printable_resources_science_health_and_growth

Create a graph to show the effect of different kinds of exercise on the heart.

https://www.purplemash.com/#app/jsapps/graph |
	Label the Basic Parts of The Digestive System in Humans –**2Diy**	http://www.purplemash.com/site#games/2diy/digestive_system	
	To Identify the Effect of Alcohol on The Human Body -(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/effects_of_alcohol	
	Circulatory System – **2Quiz**	https://www.purplemash.com/#app/games/2diy/Circulatory_System	

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National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
			2Connect - Create a mind map to plan an experiment to effects of exercise on the human body. https://www.purplemash.com/#app/tools/2Connect **2Quiz** - The children create a quiz based upon their learning in the topic e.g. a quiz on healthy eating. https://www.purplemash.com/#app/diyjs/2quiz **2Diy 3D** - Create a game where you player must collect the healthy foods and avoid the unhealthy food. https://www.purplemash.com/#app/games/2DIY3D

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Evolution and Inheritance

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Recognise that living things have changed over time and that fossils provide information about living things that inhabited the earth millions of years ago. • Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. • Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.	Fossil Fact File -(Publishing project - **2Publish**)	https://www.purplemash.com/#app/pup/fossils_factfile	Fossil Stages – **Printable** https://www.purplemash.com/#app/lessonplans/info/printables_science_fossils
	Fossil Leaflet -(Publishing project - **2Publish**)	https://www.purplemash.com/#app/leaflets/fossils_leaflet	
	The Stages of Fossilisation - (Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/The_stages_of_fossilisation	Famous Scientists – Fact files https://www.purplemash.com/#tab/pm-home/science/famous_scientists
	Fossilisation -**2Quiz**	https://www.purplemash.com/#app/game/2diy/Fossilisation_order_Quiz	
	Dinosaurs Leaflet -(Publishing project -**2Publish**)	http://www.purplemash.com/#leaflets/dinosaurs	**2Investigate -** Create a class dinosaur database. Fields could include ✓ Name ✓ Period lived ✓ Diet
	All About Dinosaurs -(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/dinosaurs_allabout	
	Describing Dinosaurs-(Publishing project -**2Publish**)	http://www.purplemash.com/#pup/dinosaurs_describing	

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	DNA Quiz – **2Diy**	https://www.purplemash.com/#app/games/2diy/dna_quiz	✓ Size ✓ Weight ✓ Fact https://www.purplemash.com/#app/tools/2inv
	Adaption to A Temperate Climate- (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/adaptation_temperate	
	Adaption to An Ocean Climate- (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/adaptation_ocean	
	Adaption to A Tundra Climate- (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/adaptation_tundra	**2Quiz** - Create a quiz about how animals are adapted to suit different environments.
	Adaption to A Desert Climate- (Publishing project -**2Publish**)	http://www.purplemash.com/#pup/adaptation_desert	
	Adaption to A Tropical Climate- (Publishing project -**2Publish**)	http://www.purplemash.com/#postcards/tropical	
	Adaption to A Polar Climate- (Publishing project -**2Publish**)	http://www.purplemash.com/#postcards/polar	https://www.purplemash.com/#app/diyjs/2quiz
	Arctic Labelling -(**2Diy**)	https://www.purplemash.com/app/games/2diy/Arctic_Labelling_2	
	Polar Explorer Game – (**2Diy**)	http://www.purplemash.com/#games/2diy/Polar_Pairs	

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Light

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• Recognise that light appears to travel in straight lines. • Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. • Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. • Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.	How Light Travels -(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/lighttravels	Famous Scientists – Fact files https://www.purplemash.com/#tab/pm-home/science/famous_scientists **2Graph** - children to record results from an investigation of shadow length. X axis = distance from light source. Y axis = length of shadow. https://www.purplemash.com/#app/tools/2graph **2Design and Make** - Give the children the task of making a periscope. What will they need to consider when designing it? What will make it successful?
	Light and Mirrors -(Publishing project -**2Publish**)	http://www.purplemash.com/site#pup/lightandmirrors	
	Sources of Light - (Publishing project -**2Publish**)	https://www.purplemash.com/#app/pup/lightorreflector	
	Reflective Surfaces – **(2Publish)**	https://www.purplemash.com/#app/pup/lightreflectabsorb	
	Light Bulb Quiz – **2Diy**	https://www.purplemash.com/#app/games/2diy/Light_Bulb	

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
	Shadows – **Printable**	https://www.purplemash.com/site#app/lessonplans/info/printables_science_shadows	https://www.purplemash.com/#app/tools/2dam

2Animate - Create an animation which helps to demonstrate how a shadows size can change according to the position of the light source on a given object. https://www.purplemash.com/app/tools/2ani |
| | Sundial – **Printable** | https://www.purplemash.com/site#app/lessonplans/info/printables_science_sundial | |

Electricity

National Curriculum Statement	Purple Mash Resource	Direct link to resource	Ideas, links to Planning & Resources
• 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 • Use recognised symbols when representing a simple circuit in a diagram.	Match the Symbol to The Name	http://www.purplemash.com/site#games/2diy/Electrical_Symbols_Pairs	**Mashcam** – Ask the children to use the Electrical Engineer Mashcam explain how the brightness of a lamp is affected by the number of cells and components in a circuit. https://www.purplemash.com/site#app/mashcam/Electrical_engineer_cam Famous Scientists – Fact files. Focus on Thomas Edison. https://www.purplemash.com/#tab/pm-home/science/famous_scientists **2Connect** – Use 2Connect to share ideas on how to create a buzz wire game or working SOS device.
	Electrical Components in A Circuit -	https://www.purplemash.com/site#app/pup/Electrical_Components_and_Symbols	
	Circuits Practical Enquiry – **Printable**	https://www.purplemash.com/site#app/lessonplans/info/printables_science_circuits_practical_enquiry	
	Ordering the Brightness of a Bulb	https://www.purplemash.com/site#app/tools/2pubextra/Ordering_the_brightness_of_the_bulb	
	How A Bulb Works in A Circuit	https://www.purplemash.com/site#app/pup/How_a_bulb_lights_up	
	Draw Circuits In 2Publish Extra -	https://www.purplemash.com/app/pup/science_series_circuits	

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	Electrical Safety - (Publishing project - **2Publish**) *Non-Statutory suggested NC Objective.	https://www.purplemash.com/site#app/leaflets/Electrical_Safety	https://www.purplemash.com/site#app/tools/2Connect