Physics	Developing	Broadening	Blended	Pathway
i ilysics	(DA 2-4)	(DA 4-5)	(DA 5+- KS1 and Lower	(Upper KS2- gateway
	(DA 2-4)	(DA 4-3)	KS2)	into 3)
Senses including, Light	Use senses to investigate	Identify correct body part	Investigate light and	Identify how sounds are
and Dark and Sound	changes in light levels,	used for each sense and	shadows	made
and balk and sound	sound levels and textures	investigate different	Start to identify some	Associate some
	and demonstrate how we	cancelling effects (e.g.	sources of light (natural	sounds being made
	can control these (e.g. turn	blindfolds, ear defenders)	and artificial).	with something
	lights on/off)	 Can match the 	2. To start	vibrating.
	1. To show interest in	senses to the	understanding that	2. Recognise that
	changes in the light	corresponding body	darkness is an absence	vibrations from sounds
	levels.	parts.	of light.	travel through a medium to the ear
	To practise turning the lights on and off and	Investigate different materials (transparent,	3. Recognise that shadows are formed	3. Find patterns between
	label whether it is light or	translucent and opaque)	when the light from a	the pitch of a sound
	dark.	to see how to cancel	light source is blocked	and features of the
	3. To show some interest	effect of seeing. (e.g.	by a solid object	object that produced
	in changes in the sound	design a blindfold).	4. Find patterns in the	it
	levels.	To investigate how	way that the size of	4. Find patterns between
	4. To practise turning	we can block sound from	shadows changes	the volume of a sound
	the sound on and off	reaching our ears (e.g.		and the strength of the vibrations that
	and label if it is loud or	design ear defenders).		produced it
	quiet. 5. To investigate	4. To investigate how we can block smell from		5. Recognise that sounds
	different textures and to	reaching our noses.		get fainter as the
	show some preferences.	5. To investigate how		distance from the
	·	we can cancel effect of		sound source
		feeling textures.		increases
Friction, forces and	Investigate pushes, pulls and	Investigate friction and its	Explain why changes in	Compare how things
Friction, forces and electricity	twists	impact on moving objects	friction can impact the	move on different surfaces
1	twists 1. Can copy pushing,	impact on moving objects 1. Notice that objects	friction can impact the movement of objects	move on different surfaces when exposed to
	twists 1. Can copy pushing, pulling and twisting	impact on moving objects 1. Notice that objects move faster/slower with	friction can impact the movement of objects Notice that	move on different surfaces when exposed to magnetism
	twists 1. Can copy pushing,	impact on moving objects 1. Notice that objects move faster/slower with different applied forces	friction can impact the movement of objects Notice that unsupported objects fall	move on different surfaces when exposed to magnetism 1. Notice that some
1	twists 1. Can copy pushing, pulling and twisting motions	impact on moving objects 1. Notice that objects move faster/slower with	friction can impact the movement of objects Notice that	move on different surfaces when exposed to magnetism
1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different	friction can impact the movement of objects • Notice that unsupported objects fall towards the Earth	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact
1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects	friction can impact the movement of objects • Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance
1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a	friction can impact the movement of objects • Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets
1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions 3. Experiment with push,	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a force can make the	friction can impact the movement of objects Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Notice the effects of	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets attract or repel each
1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions 3. Experiment with push, pulls and twists in a	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a force can make the objects move, slow	friction can impact the movement of objects Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Notice the effects of air resistance, water	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets attract or repel each other and attract
1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions 3. Experiment with push,	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a force can make the objects move, slow down, go faster, stop or	friction can impact the movement of objects Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Notice the effects of air resistance, water resistance and friction,	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets attract or repel each other and attract some materials and
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1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions 3. Experiment with push, pulls and twists in a	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a force can make the objects move, slow down, go faster, stop or change direction Demonstrate knowledge of the safe operation of	friction can impact the movement of objects Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Notice the effects of air resistance, water resistance and friction, that act between moving surfaces Notice that some forces need contact between two objects	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets attract or repel each other and attract some materials and not others 3. Compare and group together a variety of everyday materials on the basis of whether
1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions 3. Experiment with push, pulls and twists in a	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a force can make the objects move, slow down, go faster, stop or change direction Demonstrate knowledge of the safe operation of electrical appliances and	friction can impact the movement of objects Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Notice the effects of air resistance, water resistance and friction, that act between moving surfaces Notice that some forces need contact between two objects Notice that friction is	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets attract or repel each other and attract some materials and not others 3. Compare and group together a variety of everyday materials on the basis of whether they are attracted to
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1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions 3. Experiment with push, pulls and twists in a	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a force can make the objects move, slow down, go faster, stop or change direction Demonstrate knowledge of the safe operation of electrical appliances and the power sources they use. 1. Start identifying	friction can impact the movement of objects Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Notice the effects of air resistance, water resistance and friction, that act between moving surfaces Notice that some forces need contact between two objects Notice that friction is	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets attract or repel each other and attract some materials and not others 3. Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some
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1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions 3. Experiment with push, pulls and twists in a	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a force can make the objects move, slow down, go faster, stop or change direction Demonstrate knowledge of the safe operation of electrical appliances and the power sources they use. 1. Start identifying common appliances that run on electricity	friction can impact the movement of objects Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Notice the effects of air resistance, water resistance and friction, that act between moving surfaces Notice that some forces need contact between two objects Notice that friction is different on different surfaces	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets attract or repel each other and attract some materials and not others 3. 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 4. Describe magnets as having two poles 5. Predict whether two
1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions 3. Experiment with push, pulls and twists in a	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a force can make the objects move, slow down, go faster, stop or change direction Demonstrate knowledge of the safe operation of electrical appliances and the power sources they use. 1. Start identifying common appliances that run on electricity 2. Sort appliances into ones that use batteries and mains electricity	friction can impact the movement of objects Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Notice the effects of air resistance, water resistance and friction, that act between moving surfaces Notice that some forces need contact between two objects Notice that friction is different on different surfaces Build a simple circuit and problem solve if it doesn't	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets attract or repel each other and attract some materials and not others 3. 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 4. Describe magnets as having two poles 5. Predict whether two magnets will attract or
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1	twists 1. Can copy pushing, pulling and twisting motions 2. Demonstrate an understanding of key vocabulary e.g. push and pull by following instructions 3. Experiment with push, pulls and twists in a	impact on moving objects 1. Notice that objects move faster/slower with different applied forces 2. Explore different surfaces and how they impact on moving objects 3. Investigate how a force can make the objects move, slow down, go faster, stop or change direction Demonstrate knowledge of the safe operation of electrical appliances and the power sources they use. 1. Start identifying common appliances that run on electricity 2. Sort appliances into ones that use batteries and mains electricity	friction can impact the movement of objects Notice that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Notice the effects of air resistance, water resistance and friction, that act between moving surfaces Notice that some forces need contact between two objects Notice that friction is different on different surfaces Build a simple circuit and problem solve if it doesn't work Investigate	move on different surfaces when exposed to magnetism 1. Notice that some forces need contact between two objects, but magnetic forces can act at a distance 2. Observe how magnets attract or repel each other and attract some materials and not others 3. 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 4. Describe magnets as having two poles 5. Predict whether two magnets will attract or

	2. Identify basic parts of a circuit, including cell, wire, bulb, switch and buzzer 3. Help to finish completing a circuit 4. Start constructing a simple circuit, identifying/naming its basic parts 5. Notice that a switch opens and closes a circuit and associate this with whether or not a bulb lights in a simple series circuit	Build a simple circuit, solve problems if it doesn't work and use the knowledge of conductors and insulators to say why. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers Identify whether or not a bulb will light in a simple series circuit, based on whether or not the bulb is part of a complete loop with a battery Demonstrate that a switch opens and closes a circuit and associate this with whether or not a bulb lights in a simple series circuit Recognise some common conductors and insulators, and associate metals with being good conductor
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Biology	Developing	Broadening	Blended	Pathway	
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Human Bodies, growth and life cycle	Indicate different body parts 1. Point to different body parts through song 2. Touch a named body part 3. Touch a named photo/symbol of a body part Recognise adults and their young 1. Match a mammal adult to its corresponding young. 2. Sort photographs of humans into children and adults.	Name body parts using words, symbols, photos 1. Match photos of body parts to their own or an image of a body 2. Use symbols and/or words to name the different body parts Compare fully grown adults with their young 1. Put pictures in order from babies to adults 2. Match key characteristics to each stage of human development 3. Compare what is the same and what is different at different stages of human development	Name, draw and label basic parts of the human body 1. Name basic body parts confidently 2. Use pictures of basic body parts in correct places e.g. pictures of ears placed on the side of a blank face 3. Label parts of the human body 4. Draw external body parts in the correct place Notice that humans, have offspring which grow into adults and the changes they experience through this growth 1. Demonstrate an understanding that animals, including humans, have offspring 2. Demonstrate an understanding of the key changes for each stage of human development 3. Compare the changes that humans experience through different stages of their	Demonstrate a knowledge of the life cycles and life processes of a range of animals • 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. • 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, identifying producers, predators and prey. • Describe the changes as humans develop to old age.
All living things, their variations and their habitats	Identify which animals belong in which contrasting habitats 1. Recognise common animals and match to toys and photos/symbols 2. Recognise habitats and match features of habitats through objects and photos/symbols 3. Sort animals into the appropriate contrasting habitats when given a choice, e.g. hot / cold Demonstrate that mammals, reptiles and birds are different Investigate basic features of mammals (fur,	Begin to understand why animals live in particular habitats and their basic needs 1. Identify the features of animals such as thick fur, long necks, patterns 2. Explore what each adaptation provides – keep warm, reach food, hide 3. Identify what an animal needs to live Identify mammals, birds, reptiles and amphibians and some differences between species within the same family (e.g. How a crow is different to a peacock) Identify animals as mammals and name them	Describe how different habitats provide for the basic needs of different kinds of animals and plants and how they depend on each other 1. identify that most living things live in habitats to which they are suited 2. describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other 3. identify and name a variety of plants and animals in their habitats, including micro-habitats	Demonstrate a knowledge of how living things can be grouped and classified and how their environment influences them • 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.

	paws, skin, being warm blooded) Investigate basic features of reptiles (scales, tails, legs, snake/chameleon tongues, eyes) Investigate basic features of birds (wings, feathers, beaks, feet) Compare features of mammals, reptiles and birds	Identify animals as birds and name them Identify animals as reptiles and name them Identify animals as amphibians and name them Explain differences between species within a family	Describe and compare the structure (skeletons and their adaptions) of common animals and the purpose of these • Describe and compare variations within mammals (e.g. Anteaters have long claws and long tongues to get food, giraffes have long necks) • Describe and compare variations within birds (e.g. different beak types for different foods) • Describe and compare variations between reptiles (e.g. warning systems between rattle snakes and cobras)	Investigate how environmental changes effects the life cycles of animals Describe the life process of reproduction in some plants and animals.
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Chemistry	Developing	Broadening	Blended	Pathway
Materials – variety and suitability	Begin to match, group or find the same materials when given a choice (wet/dry hard/soft) • Match/group dry material to one other dry material • Match/group wet material to one other wet material • Match/group hard material to one other hard material • Match/group soft material to one other soft material	Demonstrate a knowledge of a variety of everyday materials 1. Match material to a photo 2. Match material to a symbol 3. Match material to a word 4. Can group objects and notice a difference between them (e.g. collect spoons and notice some are wood, plastic, metal) 5. Can start to group same materials under a heading e.g. wood, metal, plastic, fabric	Describe a range of materials and their properties 1. Group an increasing range of materials under a heading 2. Describe and compare materials 3. Begin to list the properties of a range of materials 4. Identify an appropriate material for a purpose, e.g. wood for a table	Demonstrate how materials can change through experimentation 1. Explore the differences between solids liquids and gases 2. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating 3. Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution 4. Demonstrate that some dissolving, mixing and changes of state are reversible changes 5. 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. 6. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
Experiments	Notice patterns and make links between actions and effects 1. Predict what will happen before experiencing a one-step cause and effect action. E.g., identify the bubble will pop before blowing 2. Explore two step cause and effect actions. e.g., press the switch and lights and music will start 3. Answer questions yes or no questions about the effect 4. Sequence what will happen before experiencing a multi-step cause and effect action	Take part in simple experiments, observing what has happened and predict what might happen next time 1. Answer a what will happen if question 2. Identify what is needed to answer a question 3. Predict what will happen 4. Carry out a pre- planned experiment 5. Reflect on what happened	Plan and carry out own simple experiment 1. Ask simple questions (hypothesis) and recognise that they can be answered in different ways 2. Predict what they think might happen and begin to give reasons for the answer 3. Use what they already know to suggest designs, concepts and material selections to plan an experiment 4. Perform simple experiments 5. Gather and record data to help answer their hypothesis 6. Reflect on simple ways to improve tests, designs and concepts	Follow practical scientific methods, processes and skills 1. Ask relevant questions and use different types of scientific experiments to answer them 2. Set up simple practical experiments 3. Demonstrate comparative and fair tests 4. Make timely and careful observations and, where appropriate, taking accurate measurements 5. Gather, record, and present data in a variety of ways to help answer questions 6. Report findings from experiment 7. Use results to draw simple conclusions, suggest improvements and raise further questions