## **Edison Achievement Statements Years 1-6**

Year 1	Year 1 Learners can
Plants	identify and name a variety of common plants, including garden plants, wild plants and trees, and those classified as deciduous and evergreen
	identify and describe the basic structure of a variety of common flowering plants, including roots, stem/trunk, leaves and flowers.
Seasonal	observe changes across the four seasons
Change	observe and describe weather associated with the seasons and how day length varies.
Everyday	identify and name a variety of everyday materials including; wood, plastic, glass, water and rock
materials	compare and group together a variety of everyday materials on the basis of their simple physical properties
	distinguish between an object and the material which it is made
	describe some of the physical properties of everyday materials
Animals	name and identify common animals including fish, amphibians, reptiles, birds and mammals
including	compare the structure of a variety of common animals including fish, amphibians, reptiles, birds, mammals and pets
humans	name and identify carnivores, herbivores and omnivores
	identify, name, draw and label the basic parts of the human body and link parts to my senses
Working	ask simple questions and recognise that they can be answered in different ways
Scientifically	observe closely, using simple equipment
Key stage 1	perform simple tests
	identify and classify
	use my observations and ideas to suggest answers to questions
	I can gather and record data to help me answer questions

Year 2	Year 2 Learners can
Plants	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
Everyday	find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
materials	identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular
	uses
Living things	explore and compare the differences between things that are living and dead and have never been alive
and their	identify and describe different habitats and how they provide for the basic needs for different animals and plants and how they depend on each other
habitats	describe how animals obtain their food from other animals, using the idea of a simple food chain
	identify that most living things live in habitats that they are suited
	identify and name a variety of plants and animals in their habitats, including micro-habitats
	identify and name different sources of food using the idea of a simple food chain

Animals	notice that animals, including humans have offspring which grow into adults
including	find out and describe the basic needs of animals including humans for survival
humans	describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene
Working	ask my own questions about what I notice
Scientifically	use different types of scientific enquiry to gather and record data, using simple equipment where appropriate, to answer questions:
Key stage 1	observing changes over time
	noticing patterns
	grouping and classifying things
	carrying out simple comparative tests
	finding things out using secondary sources of information
	communicate my ideas, what I do and what I find out in a variety of ways

Year 3	Year 3 Learners can
Plants	identify and describe the functions of different parts of flowering plants
	explore the requirements of plants for life and growth and how they vary from plant to plant
	investigate the way in which water is transported within plants
	explore the parts that flowers play in the life cycle of flowering plants
Forces and	compare how things move on different surfaces
magnets	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
	identify some magnetic materials
	describe that magnets have 2 poles
	predict if 2 magnets will attract or repel by looking at the poles
Rocks	compare and group together different types of rocks based on their appearance and physical simple properties
	describe in simple terms how fossils are formed when things that have lived are trapped within rock
	recognise that soil is made from rocks and organic matter
Light	recognise that we need light to see in order to see things and that darkness 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 opaque object
	find patterns in the way that the size of shadows change
Animals	identify that animals including humans need the right types and amount of nutrition
including	identify that animals, including humans, cannot make their own food, they get nutrition from what they eat
humans	identify that humans and some other animals have skeletons and muscles for support, protection and movement
Working	ask relevant questions and use different types of scientific enquiry to answer them
Scientifically	set up simple practical enquiries, comparative and fair tests

Lower Key	make systematic and careful observations
stage 2	take accurate measurements, where appropriate, using standard units
	use a range of equipment, including thermometers and data loggers
	gather, record, classify and present data in a variety of ways to help in answering questions
	record my findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables
	use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
	report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
	identify differences, similarities or changes related to simple scientific ideas and processes
	use straightforward scientific evidence to answer questions or to support their findings.

Year 4	Year 4 Learners can
Living things	recognise that living things can be grouped in a variety of ways
and their	explore and use classification keys to help, group, identify and name a variety of living things in their local and wider environment
habitats	recognise that environments can change and this can sometimes pose dangers to living things
Animals	describe the simple functions of the basic parts of the digestive system in humans
including	identify the different types of teeth in humans and their simple functions
humans	construct and interpret a variety of food chains, identifying producers, predators and prey.
States of	compare and group materials together, according to whether they are solids, liquids or gases
Matter	observe that some materials change state when they are heated, cooled and measure or research the temperature at which it happens
	identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.
Sound	identify how sounds are made, associating some of them with something vibrating
	recognise that vibrations from sounds travel through something to the ear
	find patterns between the volume of a sound and the strength of the vibrations that produced it
	find patterns between the pitch of a sound and features of what produced it
	recognise that sounds get fainter at the distance from the sound source increases
Electricity	identify common electrical appliances
	construct a simple electrical circuit, identifying its parts including cells, wires, bulbs, switches and buzzers
	identify whether or not a lamp will light in a simple series circuit, 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 simple conductors and insulators
Working	ask relevant questions and use different types of scientific enquiry to answer them
Scientifically	set up simple practical enquiries, comparative and fair tests
Lower Key	make systematic and careful observations
stage 2	take accurate measurements, where appropriate, using standard units
	use a range of equipment, including thermometers and data loggers
	gather, record, classify and present data in a variety of ways to help in answering questions
	record my findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables

	use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
	report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
	identify differences, similarities or changes related to simple scientific ideas and processes
	use straightforward scientific evidence to answer questions or to support their findings.

Year 5	Year 5 Learners can
Living things	describe the differences in life cycles of mammals, amphibians, insects and birds
and their	describe the life process of reproduction in some plants and animals
habitats	
Animals	describe the changes as humans develop to old age
including	
humans	
Properties	compare and group together everyday materials on the basis on their properties, including their properties, including their hardness solubility,
and change	transparency, conductivity and response to magnet
of materials	recognise that some materials will dissolve in liquid to form a solution, and describe how to recover a substance form a solution
	use knowledge of solids, liquids, and gases to decide how mixtures might be separated through filtering, sieving and evaporating
	give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday 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 one materials, and that this kind of change is not usually reversible
Earth and	describe the movement of the Earth and other planets in our solar system relative to the Sun
Space	describe how the moon moves in relation to the earth
	describe the Sun, Earth and Moon as approximately spherical
	talk about Earth's rotation to explain day and night and the apparent movement of the Sun across the sky
Forces	explain that unsupported objects fall towards the Earth because of the force of gravity
	identify the effects of air resistance, water resistance and friction
	recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect
Working	plan different types of scientific enquiry to answer questions including recognising and controlling variable where necessary
Scientifically	take measurements, using a range of scientific equipment with increasing accuracy and precision, taking repeat readings where appropriate
Upper Key	record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables and bar and line graphs
stage 2	use straightforward scientific evidence to answer questions or to support their findings.
	identify scientific evidence that has been used to support of refute ideas or arguments
	identify differences, similarities or changes related to simple scientific ideas and processes.
	use test results to make predictions to set up further comparative and fair tests
	report and present findings, including conclusions, casual relationships and explanations of results
	report and present findings in oral and written forms such as displays and other presentations.

Year 6	Year 5 Learners can
Living things	describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences,
and their	including micro-organisms, plants and animals
habitats	give reasons for classifying plants and animals based on specific characteristics
Animals	identify the main parts of the human circulatory system and describe their functions
including	recognise the impact of diet, exercise, drugs and lifestyle on our bodies
humans	describe the ways in which nutrients and water are transported within animals, including humans
Evolution	recognise that living things have changed over time and that fossils provide information about things that lived on the Earth millions of years ago
and	recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
inheritance	identify how animals and plants are adapted to suit their environment in different ways and that adaption may lead to evolution
Light	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 of the way light travels
	use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
Electricity	associate the outcome of a circuit with a number and voltage of the cells used
	compare and give reasons for variations in how components function, including the brightness of bulbs, loudness of buzzers and the on/off positions of
	switches
	use recognised symbols when representing a simple circuit in a diagram
Working	describe and evaluate my own and others' scientific ideas related to topics in the national curriculum (including ideas that have changed over time), using
Scientifically	evidence from a range of sources
Upper Key	ask my own questions about the scientific phenomena that I am studying, and select the most appropriate ways to answer these questions, recognising
stage 2	and controlling variables where necessary (i.e. observing changes over different periods of time, noticing patterns, grouping and classifying things,
	carrying out comparative and fair tests, and finding things out using a wide range of secondary sources)
	use a range of scientific equipment to take accurate and precise measurements or readings, with repeat readings where appropriate
	record data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
	draw conclusions, explain and evaluate their methods and findings, communicating these in a variety of ways
	raise further questions that could be investigated, based on their data and observations.