



DOSTHILL PRIMARY SCHOOL

I am working towards Building Block A1 in Science

Working Scientifically		
1	I can observe things closely using some simple equipment	
2	I can carry out investigations	
3	With some help, I can test out some ideas suggested to me	
4	I can measure in non-standard units e.g. hand span, unifix cubes etc.	
5	I am beginning to collect evidence to try and answer a question in science	
6	I can share my findings in simple different ways e.g. talking about my work, drawing pictures or completing pictograms	
7	I can gather and record information I have found out in different ways	
Plants		
8	I can identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	
9	I know what deciduous and evergreen mean	
10	I can identify and describe the basic structure of a variety of common flowering plants, including trees	
Animals, including humans		
11	I know what fish, amphibians, reptiles, birds and mammals are	
12	I can identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals	
13	I know what carnivores, herbivores and omnivores are	
14	I can identify and name a variety of common animals that are carnivores, herbivores and omnivores	
15	I can describe and compare the structure of a variety of common animals	
16	I can describe and compare the structure of a variety of common animals including fish, amphibians, reptiles, birds and mammals, including pets	
17	I can identify, name, draw and label the basic parts of the human body	
18	I know which body parts are associated with the senses	
19	I can name the 5 senses and what they are used for	
Everyday materials		
20	I can describe an object and identify the material it is made of	
21	I can identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock	
22	I can describe the simple physical properties of a variety of everyday materials	
23	I can compare and group together a variety of everyday materials on the basis of their simple physical properties.	
Seasonal changes		
24	I can name the four seasons	
25	I can describe the changes that happen across the four seasons	



26	I can describe the weather of each of the four seasons	
27	I can describe what happens to the length of the day during the four seasons	



DOSTHILL PRIMARY SCHOOL

I am working towards Building Block A2 in Science

Working Scientifically		
1	I can suggest how to find things out and with help make suggestions about collecting data to answer questions	
2	I can use simple texts and ICT to find information	
3	I can use simple equipment and make observations about my learning	
4	I can observe and compare objects, living things and events	
5	I can describe my observations using scientific vocabulary and record them, using simple tables	
6	I can use my observations and ideas to suggest answers to questions	
7	I can gather and record data to help in answering questions.	
8	I can say whether what happened was what I expected	
9	When prompted, I can say different ways that I could have done things	
Plants		
10	I can describe how seeds and bulbs grow into mature plants	
11	I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	
12	I can describe what happens to plants if they do not have water, light and a suitable temperature to grow	
Animals, including humans		
13	I know that living things grow and reproduce and that animals, including humans, have offspring which grow into adults	
14	I can find out and what animals and humans need in order to survive	
15	I can describe what foods make a healthy diet and why it is important for humans to eat the right amounts of different types of food	
16	I can describe how humans can be hygienic and why hygiene is important	
Everyday materials		
17	I can identify a range of materials including wood, metal, plastic, glass, brick, rock, paper and cardboard and what these materials are suitable for things	
18	I know some materials and can describe some of their properties	
19	I can describe similarities and differences between materials	
20	I can sort materials into groups and describe why I chose the groupings such as hardness or shininess	
21	I can find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	
22	I can make a variety of simple circuits using batteries, bulbs and wire	
23	I can compare the way in which devices such as bulbs work in different electrical circuits	
Living things and their habitats		
24	I can describe the difference between things that are living, dead, and things that have never been alive	
25	I can 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	
26	I can identify and name a variety of plants and animals in their habitats, including micro-habitats	
27	I can describe how animals obtain their food from plants and other animals	



28	I can describe a variety of food chains and identify and name different sources of food.	
----	--	--



DOSTHILL PRIMARY SCHOOL

I am working towards Building Block A3 in Science

Working Scientifically		
1	I can ask relevant questions and using different types of scientific enquiries to answer them	
2	I can set up an investigation, understanding the need to carry out a fair test	
3	I can make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment	
4	I can gather, record, classify and present data in a variety of ways to help in answering questions	
5	I can record my findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	
6	I can report on findings from my investigations in a variety of ways	
	I can make predications for my enquiries and investigations using my prior science knowledge	
7	I can use results to draw conclusions	
8	I can identify differences, similarities or changes related to simple scientific ideas and processes	
9	I can use scientific evidence/ knowledge to answer questions or to support my findings in my work	
Plants		
10	I can identify and describe the functions of different parts of flowering plants: including roots, stem/trunk, leaves and flowers	
11	I can explore and describe the conditions plants need in order to grow plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant	
12	I can investigate and describe the way in which water is transported within plants	
13	I can explore and describe the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	
Animals, including humans		
14	I can 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	
15	I can identify that humans and some other animals have skeletons and muscles for support, protection and movement.	
Rocks		
16	I can compare and group together different kinds of rocks on the basis of their appearance and simple physical properties	
17	I can describe in simple terms how fossils are formed when things that have lived are trapped within rock	
18	I can recognise that soils are made from rocks and organic matter.	
Light		
19	I can recognise and describe that they need light in order to see things and that dark is the absence of light	
20	I can notice and describe that light is reflected from surfaces	
21	I can recognise that light from the sun can be dangerous and that there are ways to protect their eyes	
22	I can recognise and describe how shadows are formed when the light from a light source is blocked by a solid object	
23	I can describe the patterns in the way that the size of shadows change.	



Forces & Magnets		
24	I can compare and describe how things move on different surfaces	
25	I can describe how forces need contact between two objects, but magnetic forces can act at a distance	
26	I can describe how magnets attract or repel each other and attract some materials and not others	
27	I can observe, 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	
28	I can describe magnets as having two poles	
29	I can predict whether two magnets will attract or repel each other, depending on which poles are facing	



DOSTHILL PRIMARY SCHOOL

I am working towards Building Block A4 in Science

Working Scientifically	
1	I can set up simple practical enquiries, comparative and fair tests
2	I can make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
3	I can ask relevant questions and use different types of scientific enquiries to answer them
4	I can gather, record, classify and present data in a variety of ways to help in answering questions
5	I can record my findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
6	I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
7	I can use my results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
8	I can identify differences, similarities or changes related to simple scientific ideas and processes
9	I can use straightforward scientific evidence to answer questions or to support their findings.
Living Things & Their Habitats	
10	I can group living things in a variety of ways giving reasons for groups
11	I can explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
12	I can describe environments can change and that this can sometimes pose dangers to living things.
Animals, including humans	
13	I can describe the simple functions of the basic parts of the digestive system in humans
14	I can identify and describe the different types of teeth in humans and their simple functions
15	I can construct and interpret a variety of food chains, identifying producers, predators and prey.
States of Matter	
16	I can compare and group materials together, according to whether they are solids, liquids or gases
17	I can 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)
18	I can identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.
Sound	
19	I can identify how sounds are made, associating some of them with something vibrating
20	I recognise that vibrations from sounds travel through a medium to the ear
21	I can find and describe patterns between the pitch of a sound and features of the object that produced it
22	I can find patterns between the volume of a sound and the strength of the vibrations that produced it
23	I recognise that sounds get fainter as the distance from the sound source increases.
Electricity	



24	I can identify common appliances that run on electricity	
25	I can construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers	
26	I can 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	
27	I recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit	
28	I recognise some common conductors and insulators, and associate metals with being good conductors.	



DOSTHILL PRIMARY SCHOOL

I am working towards Building Block A5 in Science

Working Scientifically	
1	I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables when prompted.
2	I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when prompted.
3	I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and a range of graphs
4	I can use my test results to make predictions to set up further comparative and fair tests
5	I can report and present my findings from enquiries, including conclusions, causal relationships and explanations of in a variety of ways
6	I can identify scientific evidence that has been used to support my investigations
Living Things & Their Habitats	
7	I can describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
8	I can describe the life process of reproduction in some plants and animals.
Animals, including humans	
9	I can describe the changes as humans develop to old age
Properties and changes of materials	
10	I can 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
11	I know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
12	I can use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating
13	I can give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
14	I can demonstrate that dissolving, mixing and changes of state are reversible changes
15	I can 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.
Earth & Space	
16	I can describe the movement of the Earth, and other planets, relative to the Sun in the solar system
17	I can describe the movement of the Moon relative to the Earth
18	I can describe the Sun, Earth and Moon as approximately spherical bodies
19	I can use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.
Forces	
20	I can explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
21	I can identify the effects of air resistance, water resistance and friction, that act between moving surfaces
22	I can recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect



DOSTHILL PRIMARY SCHOOL

I am working towards Building Block AG in Science

Working Scientifically	
1	I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
2	I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
3	I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
4	I can use test results to make predictions to set up further comparative and fair tests
5	I can report and present findings from my enquiries, and investigations including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
6	I can identify scientific evidence that has been used to support or refute ideas or arguments in my scientific work
Living Things & Their Habitats	
7	I can 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
8	I can give reasons for classifying plants and animals based on specific characteristics.
Animals, including humans	
9	I can identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
10	I can recognise the impact of diet, exercise, drugs and lifestyle on the way my body functions
11	I can describe the ways in which nutrients and water are transported within animals, including humans.
Evolution and inheritance	
12	I can recognise and describe how living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago
13	I can recognise that living things produce offspring of the same kind, and I can describe how normally offspring vary and are not identical to their parents
14	I can identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
Light	
15	I can describe how light appears to travel in straight lines and draw examples of this
16	I can 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
17	I can 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
18	I can use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.
Electricity	
19	I can associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
20	I can 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
21	I use recognised symbols when representing a simple circuit in a diagram.

