

Oaktree School Curriculum Ladder

Science Step 1

Name: _____

Learning Objective	Date
I can choose an object for the right job, eg fork for eating, cup for water.	
I can point to my eyes, nose and mouth.	
I can point to a picture of a dog, cat or bird.	
I can point to a plant / flower / tree.	
I can identify different sounds.	
I can point to one thing that plugs in.	

No. targets met	1	2	3	4	5	6
Point	1	2	3	4	5	6

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Science Step 2

Name: _____

Learning Objective	Date
I can say if something is hot or cold.	
I can use simple equipment with support.	
I can point to my head, hands & feet.	
I can identify & point to the flower / leaf of a plant.	
I can say if a material is wet or dry.	
I can push and pull things to make them move.	

No. targets met	1	2	3	4	5	6
Point	7	8	9	10	11	12

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Science Step 3

Name: _____

Learning Objective	Date
I can wait my turn to use equipment when I am told.	
I can handle equipment carefully when I am told.	
I can match an animal to where it lives / what it eats.	
I can explain that living things grow.	
I can sort objects with one obvious difference.	
I can explain the sun gives us light.	

No. targets met	1	2	3	4	5	6
Point	13	14	15	16	17	18

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Science Step 4

Name: _____

Learning Objective	Date
I can use equipment if I am shown what to do first.	
I can record my results with ticks and crosses with help.	
I can put 3 pictures of humans in order of their life stages.	
I can identify and one fruit and one vegetable.	
I can push or pull a toy to make it move faster or slower.	
I can explain that electricity can be dangerous.	

No. targets met	1	2	3	4	5	6
Point	19	20	21	22	23	24

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Science Step 5

Name: _____

Learning Objective	Date
I can sign / tell you about changes I see.	
I can start to make predictions.	
I can put 5 pictures of humans in order of their age.	
I can name the main parts of a plant - leaf, flower, root, stem.	
I can pick out things made of: a) wood b) glass c) plastic d) metal	
I can order 3 things in terms of their speed.	

No. targets met	1	2	3	4	5	6
Point	25	26	27	28	29	30

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Science Step 6

Name: _____

Learning Objective	Date
I can record results in tables with support.	
I can use equipment safely.	
I can say which part of the body is associated with each sense.	
I can name the main parts of the body, e.g. arms legs head.	
I can explain that plants need light, air & water.	
I can sort objects based on specific features e.g. on shape, colour & size or based on how they feel (texture).	
I can talk about the weather associated with the seasons.	
I can match 4 animals to their habitats.	
I can name common appliances that run on electricity.	

No. targets met	1	2	3	4	5	6	7	8	9
Point	31	32	33	34	35	36	37	38	39

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Science Step 7

Name: _____

Learning Objective	Date
I can make predictions and check them against my results.	
I can say what I have found out.	
I can explain that animals need food, air, what & a place to live.	
I can group things according to observable similarities & differences.	
I can say what plants need to live and grow healthily - (air, light, water, nutrients from the soil and room to grow)	
I can say if materials float or sink.	
I can explain that the sun, moon and earth are round.	
I can group animals based on key features.	
I can say how different sounds are made.	

No. targets met	1	2	3	4	5	6	7	8	9
Point	40	41	42	43	44	45	46	47	48

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Science Step 8

Name: _____

Learning Objective	Date
I can explain if something is a fair test.	
I can independently record results in a simple table / chart.	
I can explain that animals, including humans, need the right types and amounts of food.	
I can sequence an animal life cycle / a plant life cycle.	
I can explore magnets and know that some materials are attracted to magnets and some are not.	
I can talk about the differences between things that are living, dead, and things that have never been alive.	
I can group different kinds of rocks.	
I can explain that shadows are formed when the light from a light source is blocked by an object.	
I can feel magnets attracting or repelling each other	

No. targets met	1	2	3	4	5	6	7	8	9
Point	49	50	51	52	53	54	55	56	57

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Science Step 9

Name: _____

Learning Objective	Date
I can select appropriate equipment for my investigations.	
I can say what I have found out, observe simple patterns in my results and suggest improvements.	
I can explain that humans and some other animals have skeletons and muscles for support, protection and movement.	
I can say what plants need to live and grow - (air, light, water, nutrients from soil and room to grow).	
I can talk about the suitability of everyday materials such as wood, metal, plastic, glass, brick, rock, paper & cardboard for different uses.	
I can identify and name a variety of animals in their habitats.	
I can group animals based on key features.	
I can explain that there needs to be light to make a shadow and that the size of shadows change.	
I can explain we hear when sound waves travel from the source into our ears.	

No. targets met	1	2	3	4	5	6	7	8	9
Point	58	59	60	61	62	63	64	65	66

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Science Step 10

Name: _____

Learning Objective	Date
I can record my results in tables and bar charts.	
I can talk about different kinds of teeth and their functions.	
I can talk about the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.	
I can group materials together according to whether they are solids, liquids or gases.	
I can explain why the position of the sun changes during the day & know what causes day and night.	
I can explain the relationships of the living things in a food chain or food web, identifying producers, predators and prey.	
I can explain that soils are made from rocks and organic matter.	
I can explain that light is needed to see and that dark is the absence of light.	
I can say why a bulb in a circuit might not light.	

No. targets met	1	2	3	4	5	6	7	8	9
Point	67	68	69	70	71	72	73	74	75

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Science Step 11

Name: _____

Learning Objective	Date
I can start to plan investigations & base my predictions on prior knowledge.	
I can understand the importance of fair testing.	
I can describe the changes as humans develop to old age.	
I can say how water travels up a plant.	
I can compare and group together everyday materials on the basis of their properties.	
I can use a simple branching key to identify objects and living things.	
I can explain that light from the sun can be dangerous and how to protect my eyes.	
I can explain that some materials are attracted to magnets and some are not.	
I can make a simple series electrical circuit and name the basic parts - cells, wires, bulbs, switches, buzzers..	

No. targets met	1	2	3	4	5	6	7	8	9
Point	76	77	78	79	80	81	82	83	84

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Science Step 12

Name: _____

Learning Objective	Date
I can make appropriate measurements and observations.	
I can use scientific terms and words to communicate my conclusions.	
I can talk about the simple functions of the basic parts of the digestive system in humans.	
I can say how a flower is an important part of the life cycle of a plant	
I can compare the physical properties of metals and non-metals.	
I can explain that the earth orbits the sun.	
I can explain that fossils are formed when things that have lived are trapped within rock.	
I can explain that sounds get fainter as the distance from the sound source increases.	
I can recognise some conductors and insulators	

No. targets met	1	2	3	4	5	6	7	8	9
Point	85	86	87	88	89	90	91	92	93

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Science Step 13

Name: _____

Learning Objective	Date
I can begin to see patterns in my results.	
I can use scientific terms to describe changes I observe & can say whether changes are reversible or not.	
I can explain the names and positions of the major body organs.	
I can put living things in groups based on external features.	
I can identify and name a variety of plants in their habitats.	
I can see that some materials change when they are heated or cooled.	
I can give reasons for the use of everyday materials for particular uses	
I can explain that the moon orbits the earth.	
I can make a simple series electrical circuit and draw / label a simple series circuit.	

No. targets met	1	2	3	4	5	6	7	8	9
Point	94	95	96	97	98	99	100	101	102

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Science Step 14

Name: _____

Learning Objective	Date
I can suggest ways of improving my work.	
I can identify and name the main parts of the human circulatory system and the functions of the heart, blood vessels and blood.	
I can talk about the reproductive process of plants; pollination, seed formation & seed dispersal.	
I can say if a substance dissolves.	
I can use appropriate techniques to separate mixtures.	
I can understand why the position and size of shadows changes during the day.	
I can explain how light travels and shadows are formed.	
I can talk about a magnet having two poles and that magnetic forces can act at a distance.	
I can talk about how the brightness of a bulb or volume of a buzzer in an electrical circuit is dependent on the number and voltage of cells in a circuit.	

No. targets met	1	2	3	4	5	6	7	8	9
Point	103	104	105	106	107	108	109	110	111

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Science Step 15

Name: _____

Learning Objective	Date
I base my predictions on scientific knowledge.	
I plan my investigation so it is a fair test.	
I can explain that living things produce offspring of the same kind but they are not identical to their parents.	
I can explain the life processes of plants and animals.	
I can name the main plant organs and their functions including plant reproduction	
I can list some of the properties of metals and say how these affect the way they function.	
I can explain about the sun and planets of our solar system.	
I can recognise that living things have changed and that fossils tell us about living things that inhabited Earth millions of years ago.	
I can see how levers, pulleys and gears work.	

No. targets met	1	2	3	4	5	6	7	8	9
Point	112	113	114	115	116	117	118	119	120

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Science Step 16

Name: _____

Learning Objective	Date
I can select equipment to make appropriate measurements and observations.	
I can use appropriate scientific language to communicate my findings.	
I can name the main body organ systems and explain how they work.	
I can classify plants and animals based on external features.	
I can explain the terms evaporation and condensation and explain their relevance in the changes of state.	
I can explain how to separate an insoluble & soluble substance when mixed with water.	
I can talk about the movement of planets in the solar system.	
I can recognise that light appears to travel in straight lines.	
I can describe two ways that friction affects our everyday lives.	

No. targets met	1	2	3	4	5	6	7	8	9
Point	121	122	123	124	125	126	127	128	129

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Science Step 17

Name: _____

Learning Objective	Date
I can record my results systematically and present my results as graphs where appropriate.	
I can give an example of how scientists in the past have contributed to our current scientific knowledge.	
I can match a variety of plants and animals to their appropriate habitats and say how they are adapted to suit them.	
I can explain the differences between solids, liquids and gases in terms of particle arrangement.	
I can explain the relationship between the sun, moon and earth as well as the effects of the movement of the earth (eg length of day or year).	
I can explain how light travels and is reflected.	
I can explain that unsupported objects fall to Earth because of the force of gravity.	
I can explain that that sound needs a medium in which to travel.	
I can set up and compare a series and a parallel circuit & can describe the effect of changing different components of a circuit.	

No. targets met	1	2	3	4	5	6	7	8	9
Point	130	131	132	133	134	135	136	137	138

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