## Year 1

Term	Science Topic	Knowledge and understanding	Scientific Enquiry Skills	What I will know and remember
1	Animals including humans	To identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.  To identify and name a variety of common animals that are carnivores, herbivores and omnivores.  To describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).  To identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Observe and identify animals in the world around them.  Make careful observations of animals in the same group and can use simple features to compare living things (animals).  Use simple secondary sources to find answers to help them sort and classify animals according to what they eat.  Use their senses to carry out simple practical tests, using simple equipment. Draw simple conclusions and can, with support, record and communicate their findings in a range of ways.  Use simple sorting diagrams to sort and classify objects (animals) into simple groups of their choice and are beginning to explain why they have sorted them this way.	I can identify and name some common animals.  I can describe and compare the structure of a variety of common animals.  I can identify, name and sort animals that are herbivores, carnivores and omnivores.  I can identify the parts of the human body.  I can identify the five senses and perform simple tests to observe them.  I can group animals according to a criteria.

## **Vocabulary**

- · Names of animal groups: fish, amphibians, reptiles, birds, mammals.
- · Animal diets: carnivore, herbivore, omnivore.

- <u>Human and animal body parts</u>: e.g. body, head, neck, arms, elbows, legs, knees, face, ears, eyes, nose, hair, mouth, teeth, hands, feet, tail, wings, feathers, fur, beak, fins, gills.
- <u>Human senses</u>: sight, hearing, touch, smell, taste.
- Exploring senses: loud, quiet, soft, rough.
- Other: human, animal, pet.

<u>End of unit assessment</u> <u>Working towards</u> <u>Working at</u>	<u>Working above</u>
Changes: Autumn and Winter  four seasons. To observe and describe weather associated with the seasons and how day length varies.  over a period of time. Observe seasonal changes in nature. Group things associated with each weather type. Identify and name things in nature associated with autumn. Identify features of autumn and winter and make comparisons. Use an identification key to identify and name signs of autumn. Use the information on the PowerPoint to find out about animals in winter.	cribe the weather in  rd data about the weather  autumn and winter.

I can **observe** changes in the trees and in clothes that we wear from autumn to winter.



I can research how some animals adapt in winter.



## Vocabulary

• Seasons: spring, summer, autumn, winter, seasonal change.

properties.

- · Weather: e.g. sun, rain, snow, sleet, frost, ice, fog, cloud, hot/warm, cold, storm, wind, thunder, weather forecast.

materials  and the material from which it is made.  To identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.  To describe the simple physical properties of a variety of a variety of they let through (and therefore identify)  Identify materials that objects are made of.  Identify materials to bjects are made of.  Identify properties of materials.  Test materials to identify their properties and sort objects based on what material they are made of.  I can identify the and the materials in the m	Working above
and rock. To describe the simple physical properties of a variety of  made of. Test different materials to see how much water they let through (and therefore identify  I can identify the	name different materials. Hifference between an object Tis made from.
everyday materials.  To compare and group together a variety of everyday materials on the basis of their simple physical  Ogden Trust Resource: Phizzi Earth and Space:  T can identify which	roperties of everyday n materials have certain

Enquiry A - Astronappy

Ogden Trust Resource : Phizzi Light and Sound : properties. Investigation A - What is in the bear cave? Ogden Trust Resource : Phizzi Forces : Enquiry A I can **observe** closely. - Magnetic Materials Ogden Trust Resource : Phizzi Electricity in KS1: I can test different materials. Balloon Beards I can use what I have learnt to make a decision Ogden Trust Resource : Phizzi Electricity in KS1: Electricity Around Me I can **group** objects by their properties. Vocabulary · Names of materials: wood, plastic, glass, metal, water, rock, paper, cardboard, rubber, fabric. • Properties of materials: hard, soft, shiny, dull, stretchy, rough, smooth, bendy, not bendy, transparent, opaque, waterproof, not waterproof, absorbent, not absorbent, sharp, stiff. · Other: object. End of unit assessment Working towards Working at Working above Make careful observations, sometimes To identify and name a variety of I can describe and compare plants, seeds and Plants 4 common wild and garden plants, using equipment to help them, of seeds and bulbs. including deciduous and evergreen plants. Explore the world around them, leading them to trees. To identify and describe the ask some simple scientific questions about how I can name and compare the parts of plants. and why things happen. basic structure of a variety of common flowering plants, Make close observations of plants. including trees. Observe the natural world around them.

Observe closely and identify, classify and sort I can identify and name some common garden and plants from their observations. wild plants. Begin to explain their choices using simple scientific language. Identify similarities and differences I can identify and name some common plants and between plants and begin to sort them according to a given criteria. I can identify, group and compare some common fruit and vegetable plants. Vocabulary • Names of common plants: wild plant, garden plant, evergreen tree, deciduous tree, common flowering plant, weed, grass. · Name some features of plants: e.g. flower, vegetable, fruit, berry, leaf/leaves, blossom, petal, stem, trunk, branch, root, seed, bulb, soil. · Name some common types of plant e.g. sunflower, daffodil. End of unit assessment Working towards Working at Working above To observe changes across the Identify and classify things that happen I can **observe** how things change between 5 Seasonal in the different seasons. changes: four seasons. seasons. To observe and describe weather Make observations to identify features of Spring and Summer associated with the seasons and seasons and compare them, explaining their how day length varies. reasoning. I can research what happens in summer and how Make observations using simple equipment. to stay safe in the sun.

Gather and record data to help in answering auestions. Use simple equipment to make observations. I can **observe** and describe the weather. Use a secondary source to gather data and complete a table. They can then use the data to help them match answers to questions. I can observe seasonal changes. Decide how to sort and classify features of seasons into simple groups with some help and 0 record classification tasks using simple tables or sorting diagrams. I can **use data** to suggest answers about how daylight hours vary. Ogden Trust Resource : Phizzi Earth and Space : Teaching Point 1 I can compare the four seasons. Vocabulary • Seasons: spring, summer, autumn, winter, seasonal change. • Weather: e.g. sun, rain, snow, sleet, frost, ice, fog, cloud, hot/warm, cold, storm, wind, thunder, weather forecast. • Measuring weather: temperature, rainfall, wind direction, thermometer, rain gauge. • Day length: night, day, daylight. End of unit assessment Working towards Working at Working above

6 Scientists and inventors

To describe the simple physical properties of a variety of everyday materials.

To describe and compare the structure of a variety of common animals.

To identify and name a variety of common wild and garden plants.

Use observations to suggest answers to questions, by thinking about why Lego is made out of plastic.

Ask simple questions and use simple secondary sources to find answers, by role playing an interview with Mae Jemison.

To identify and classify animals, by sorting animals according to their features.

Gather and record data to help in answering questions, by creating a chart showing the class' most popular sensory plants.

To observe and describe weather associated with the seasons, by measuring rainfall with a rain gauge they have made.

To gather and record data to help in answering questions, by measuring rainfall with a rain gauge they have made.

To identify and classify, by identifying the basic parts of animals' bodies.

I can **identify** the properties of Lego and think about why Lego is made out of plastic.



I can ask questions about Mae Jemison and research the answers.



I can compare the bodies of different animals.



I can group animals into different groups.



I can identify different plants.



I can make a chart to show our favourite plants.



I can **observe** and describe the weather.



I can **measure** and record information about rain.



I can research how vets look after animals.



I can identify parts of animals' bodies.



## Vocabulary

Recap of vocabulary taught across the year.

Lego, material, plastic, properties

Astronaut, space, NASA

Zoo, enclosure, sort, group, wings, fur, fins, legs

Senses, sensory, see, hear, feel, smell, texture, plants, leaves, flowers, horticulturist.

Rainfall, rain gauge, meteorologist

Animals, veterinarian, vet, medicine, pet, tail, claws, wing, whiskers, fins.

Winter, ear muffs, warm, material, properties

Biologist, smell, nose, sense, scent.

Working towards

End of unit assessment
Working at

Working above