**National Curriculum Subject** - **Science** **Year 2**

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| **Topic title/theme*****(why now? /rationale)*** | **Activities/ investigations** | **National Curriculum objective** | **Vocabulary** | **Knowledge** | **Skills** |
| *Autumn 1 – 3 weeks**To start the year off by learning about ourselves*Cycle AFunnybonesCycle BGetting to know you, getting to know all about you/All AbroadCycle CMarvellous Me |  | Animals including HumansNotice that animals, including humans, have offspring which grow into adultsFind out about and describe the basic needs of animals, including humans, for survival (water, food and air)Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene | growth, nutrients, offspring, reproductionadultsurvivalhygieneexercise | Know that animals produce offspring that grow into adults.Know that animals, including humans, need water, food and air to survive.Know the basic food groups: fruit and veg, carbohydrates, protein, dairy, fat and sugary foods.Know that more than ½ of our diet should be made up of carbohydrates, fruit and veg.Know that fats and sugary foods should be eaten rarely and in small amounts.Know that people need to exercise often to help their body stay strong and fit.Know that keeping clean, including washing and brushing teeth, is an important part of staying healthy.  | Identify and classify – compare, sort and group animals.Ask simple questions and use secondary sources to find answers. Use observations and ideas to suggest answers to questions.Use simple scientific language. |
| *Autumn 2* Cycle ASuperheroesCycle BThe naughty little shoe maker and the runaway gingerbread manCycle CTraditional Tales – 3 Little Pigs |  | Uses of everyday materialsIdentify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for different usesCompare how things move on different surfacesFind out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching | Revision from yr 1BendyTransparentopaqueabsorbentwaterproofYr 2movementsuitabilitysurfacepropertiessquashstretchtwistflexiblerigidlightweight | Know that materials can have useful properties for a given jobKnow that many types of plastic are waterproof, that steel is strong, that rock is hard, that cotton wool is soft, that rubber is flexible, that rock is rigid, that polystyrene is light and iron is heavy | Observe closely using simple equipmentPerform simple testsIdentify and classify Gather and record data to help in answering questions |
| *Spring 1*Cycle AThe animals of Ormesby WoodCycle BLift Wanted around the worldCycle CBear in the World… |  | Living things and their habitatsExplore and compare the differences between things that are living, dead, and things that have never been aliveIdentify 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 otherIdentify and name a variety of plants and animals in their habitats, including microhabitatsDescribe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. | living processeslivingdeadnever livedfood chainfood sourceshabitatmicrohabitatdependsurvive | Know that some things are living, some things are dead and some things have never livedUnderstand the food chain and how living things stay aliveKnow and name different habitats/microhabitats and where certain animals can survive | Observe closely using simple equipment Identify and classify Gather and record data to help in answering questions |
| *Spring 2*Cycle BMy World Kitchen | **Science week** To fit in with National Science Week |  |  |  |  |
| *Summer 2*Cycle AJack and the beanstalk Cycle BMr Body – save our School GroundsCycle CInto the Woods*To allow us to grow & study plants at the right time of year* |  | PlantsObserve 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. | bulbseedtemperaturegrowthenergyhabitat | Know that seeds and bulbs need to be buried underground in soil and that they will grow into adult plants under the right conditionsKnow that plants that are deprived of light, food or air will not grow and will die  | Observe closely using simple equipmentIdentify and classify based on observational propertiesTest questions to see if they are true Gather and record data to help in answering questions |