

Dore Primary School Y4 Learning Journey 4 Y4 Go Wild

| Purpose of Learning Journey (Endpoints): | Science: Working Scientifically: asking relevant questions and using different types of scientific enquiries to answer them (helicopters, straw planes, flying cars) setting up simple practical enquiries, comparative and fair tests (helicopters, straw planes, flying cars / parachutes) making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using planes, flying cars / parachutes) gathering, recording, classifying and presenting data in a variety of ways to help in answering questions (helicopters, straw planes, flying cars / parachutes) gathering, recording, classifying and presenting data in a variety of ways to help in answering questions (helicopters, straw planes, flying cars) / parachutes) gathering, recording, classifying and presenting data in a variety of ways to help in answering questions (helicopters, straw planes, flying cars) reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusio parachutes) using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions (helicopters, straw planes, flying cars) using straightforward scientific evidence to answer questions or to support their findings (helicopters, straw planes, flying cars) construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buz 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 flying cars) recognise that a switch opens and closes a circuit and associate metals with being good conductors (pre-teaching for flying cars) exp |
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| Links to Prior Knowledge: | Science – conducting scientific experiments |
| Links for Relevance and Currency: | Climate change in Antarctic, opportunities for children to explore and have adventures |
| Immersion Event / Activity: | Videos of Preet Chandi and Bear Grylls in action. English lessons on Nellie Bly and Mario Rigby. |
| Celebration of Learning: | River trip to test rafts, assault course video, parachute testing |
| English Links: | Non-fiction report writing - linked with solo Antarctic journey of Preet Chandi |
| Maths Links: | Data handling, measuring |
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(helicopters, straw planes, flying cars / parachutes) a cars / parachutes) rs / parachutes)

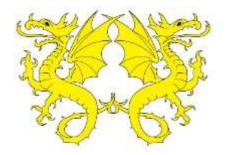
zzers (*pre-teaching for flying cars, flying cars*) op with a battery (*pre-teaching for flying cars*,

uit (pre-teaching for flying cars, flying cars)

ing object *(helicopters, straw planes, flying cars)* s, *flying cars - parachutes)*

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Dore Primary School Y4 Learning Journey 4

Y4 Go Wild

| Subject | Lesson | Key Knowledge or Skill (Taken from Chris Quigley Milestone or scheme of work) | Substantive and Disciplinary knowledge and Skills embedded through: | Outcomes | | Links to Curriculum Drivers | | | | |
|---------------------|------------------|---|---|---|---|--------------------------------|-----|--------------------|------|--|
| | | | | | | Outdoor Learning | P4C | Global / Rights | TASC | |
| Science | 1 | Identify the effect of drag forces, such as air resistance, that act between moving surfaces. Set up simple, practical enquiries and comparative and fair tests. Make accurate measurements using standard units, using a range of equipment | Labelling diagrams to show key forces. Carrying out a scientific enquiry to study air resistance. Using a fair test and identifying variables. Measuring and recording results accurately. | Children know and understand how air resistance affects the flight of a glider. | | | | | ~ | |
| | 2 | Set up simple, practical enquiries and comparative and fair tests. Make accurate measurements using standard units, using a range of equipment | Carrying out a scientific enquiry to study the helicopter flight. Using a fair test with consideration of variables. Measuring and recording results accurately. | Children understand the effect that changing variables has on the helicopter. | | | | | ~ | |
| | 3 | Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. | Learning the symbols for drawing electrical circuits. Practising constructing simple electrical circuits. | Children draw and make a simple electrical circuit. | | | | | | |
| | 4 | Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. Set up simple, practical enquiries and comparative and fair tests. Make accurate measurements using standard units, using a range of equipment | Building a model of a car and adding a simple electrical circuit. Carrying out a scientific enquiry to study the effect of different fans. Using a fair test with consideration of variables. Measuring and recording results accurately. | Children construct a car and carry out a fair test using different fans. | | | | | ~ | |
| | 5 | Set up simple, practical enquiries and comparative and fair tests. Make accurate measurements using standard units, using a range of equipment | Carrying out a scientific enquiry using a fair test with consideration of variables. Measuring and recording accurately. | Children add a parachute to their model and test. | | | | | ~ | |
| Outdoor learning | 6 | Shelter building skills | Using a range of materials to construct their outdoor shelters | Children construct their own shelter in groups. | ~ | ~ | | | | |
| | 7 | Lashing skills | Using lashing techniques to create a sturdy raft | Children create rafts using lashing. | | ✓ | | | | |
| | | Lashing skills | Evaluating the successfulness of their lashing through testing rafts in the river | Children test their rafts in the river. | | ~ | | | | |
| | 9 & 1 0 | Lashing and cutting skills | Using lashing and cutting skills to construct an assault course | Children build an assault course using lashing and cutting techniques | ~ | ~ | | | | |
| Design & Technology | 4 | Create series and parallel circuits Choose suitable techniques to construct products or to repair items. | Building a model of a car and adding a simple electrical circuit. | Children construct a car model | | | | | ~ | |
| | 5 | Choose suitable techniques to construct products or to repair items. Select appropriate joining techniques. | Using appropriate joining techniques to construct a parachute | Children construct a parachute and add to their model | | | | | ~ | |

