How steady is your hand?

Kingfisher

YEAR B, TERMS 5 & 6

Introduction to our topic

Have you ever wondered how fairground rides work? Well this term we will be looking into the science and technology in order for a fairground ride to be built as well as have a go at creating our own 'shaky hand tester' and apply some of these rules into various algorithms. We will also be looking into the pros and cons of having a fairground from multiple perspectives.

Our key learning this term

Personal and social development & RSE	We will be looking at how we can be the best we can be, including basic first aid. As part of the growing and changing unit we will also be identifying some products that they may need during puberty and why and know what menstruation is and why it happens. For our RSE unit, we will be looking at what HIV is, explaining how HIV affects the body's immune system; understand that HIV is difficult to transmit and know how a person can protect themself from HIV.
Oracy and Literacy	**Whole Class Text:** Crater Lake **Writing:** Recount Persuasive brochure Formal and informal letters Invented narrative **Poetry:** 'The Raven' by Edgar Allen Poe
Problem Solving Maths	**Year 5/6** Geometry: position and direction Fractions: 4 operations and conversions Consolidating work from the year Post SATs investigations
Technology	-Know and understand that the same principles apply to online relationships as to face-to face relationships, including the importance of respect for others online including when we are anonymous. -Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
Science	**Light and Electricity** -Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. -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. -Use recognised symbols when representing a simple circuit in a diagram. -Recognise that light appears to travel in straight lines.

	-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. -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. -Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. **Living things and their habitats** Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Mayfly in the classroom project Describe the life process of reproduction in some plants and animals.
The Arts (Art & Design, Music, Drama)	**Art** -Texture (textiles, clay, sand, plaster, stone) -Develop experience in embellishing -Apply knowledge of different techniques to express feelings -Artists: Linda Caverley, Molly Williams, William Morris, Gustav Klimt **DT** -Investigate and analyse a range of existing products -Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work -Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups -Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design -Understand and use mechanical systems in their products [for example gears, pulleys, cams, levers and linkages] -Understand and use electrical systems in their products [for example series circuits incorporating switches, bulbs, buzzers and motors] -Apply their understanding of computing to programme, monitor and control their products. **Music** -We will be following the 'Music and Me' Charanga Unit this term. -We will also be preparing for the end of year production
Humanities (RE, History, Geography)	**Geography** -Use the eight points of a compass, four and six-figure grid references, symbols and key (including the use of Ordnance Survey maps) within orienteering of the school grounds. **RE** What does it mean to belong to a religion? Hinduism This unit explore aspects of religious festivals, celebrations, practices and communities and the beliefs to which they relate - How do members of this faith celebrate and live out their beliefs in: the journey of life?; their main festivals and practices?; their faith communities?; the wider world?- Within the different groups of this faith what are the most important similarities and key differences? Why do they differ? How do they seek to work together?
P.E.	**Striking and fielding:**

	-different types of throwing -catching from a short and long distance and from a height -different batting strokes -fielding -bowling (over and under arm) **Athletics** -acceleration -throwing -jumping -reactions **Swimming:** -swim competently, confidently and proficiently over a distance of at least 25 metres in the swimming gala -use a range of strokes effectively
Modern Foreign Language (Spanish)	To describe what activities I do at the weekend with a time and an opinion In Spanish: • Tell the time in Spanish using quarter past, half past and quarter to. • Say and write in Spanish what we do at the weekend using two or more sentences. • Integrate conjunctions and opinions into written and spoken work to make more interesting and extended sentences.
Activity Passport Experiences	
This term we will have an opportunity to… ✓ Attend a school residential ✓ Perform in a production	