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| **Year 6 Autumn: Animals including humans – circulatory system (biology) 8** | | | | | | | |
| **What is the circulatory system?** | **What are arteries?** | **What are veins?** | **What are capillaries?** | **What is the structure of the heart?** | **What is pulse?** | **Why is exercise so important?** | **What can harm the circulatory system?** |
| **Year 6 Autumn: Light (physics) 7** | | | | | | | |
| **How does light travel?**  Key learning: Light travels in a straight line  Practical: PZAZ 6.6 Light How light Travels – three holes and a torch activity  Resources: 4 Piece of Cardboard, Scissors, Torch, Clothes Pegs | **What is reflection?**  Key learning: Reflection is when light bounces off a surface – this changes the direction in which the light travels  Practical: PZAZ 6.6 Light How light Travels – Periscopes activity  Resources: Reflective Plastic, Periscope Template, Sticky Tape, Glue. | **How do we see objects?**  Key learning: Light travels in a straight line from a light source, before reflecting off an object and into our eyes  Practical: PZAZ 6.6 Light How light Travels – The tube and the candle activity  Ray diagrams activity  Resources: Tube (Toilet Roll Spool), Tealight, Plate or Tile, LIghter | **What is a light source?**  Key learning: A light source is something that emits light  Practical: PZAZ 6.6 Light How light Travels – explore different sources of light – natural light sources and manmade. Group and sort.  Move on to luminous and non-luminous activity to reinforce moon is not a light source. | **How are shadows formed?**  Key learning: Because light travels in a straight line, when there is an opaque object blocking the light, a shadow is formed  Practical: No PZAZ link – shadow puppets activity  Resources: Torches | **What is the relationship between light sources and shadows?**  Key learning: The size of a shadow changes as the light source moves. It can change in size and position.  Practical: No PZAZ link – shadow puppets activity  Resources: Torches | **Can shadows change shape?**  Key learning: Shadows have the same shape as the objects that cast them  Practical: PZAZ 6.6 Light How light Travels – Shadow shapes activity  Resources: Torch, Various Toy Figures |  |
| **Year 6 Spring: Living things and their habitats (biology) 9** | | | | | | | |
| **What is classification?** | **What is an organism?** | **How can animals be grouped?** | **What are vertebrates?** | **What are the different groups of vertebrates called?** | **What are invertebrates?** | **What are the different groups of invertebrates called?** | **What is a microorganism?** |
| **How can microorganisms be grouped?** |  |  |  |  |  |  |  |
| **Year 6 Spring/Summer: Evolution and inheritance (biology) 9** | | | | | | | |
| **What is evolution?** | **What causes differences within species?** | **What is inheritance?** | **How do we know about evolution?** | **What are fossils?** | **What is adaptation?** | **Are all adaptations good?** | **What is natural selection?** |
| **Why do some animals have to adapt?** |  |  |  |  |  |  |  |