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| **Year Group - 3 & 4** | | **Date – Term Three** | |
| **Curriculum Links** | Sc4/1.2    setting up simple practical enquiries, comparative and fair tests  Sc4/1.3    making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  Sc4/1.4    gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  Sc4/3.1a    compare and group materials together, according to whether they are solids, liquids or gases  Sc4/3.1b    observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)  Sc4/3.1c    identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.  DT2/1.2b    select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities | | |
| **Session Procedures** | **Before** - Check for rubbish, glass, hazards. Check weather forecast  **During –** Keep vigilant regarding broken branches, slippery ground  Wear Hi-Viz jacket. Road safety to get to the park  **After** – clear everything away and return any natural objects to their original place  **Wash hands** | * Wash hands after touching outside objects * Remind the children about how sharp some sticks can be and to be careful of brambles and stinging nettles. * Remind children to be careful not to let the sticks fly out of their hands and go in someone else’s eye. * Gloves must be worn for both litter picking and gardening * The school grounds are our classroom and must be treated with respect. | **Equipment**  Material pieces – plastic, paper, wood, tissue, metal.  Sticks |
| **Introduction and Activity Opportunities** | **Indoors –** [**https://www.bbc.co.uk/education/clips/z97jmp3**](https://www.bbc.co.uk/education/clips/z97jmp3)  <https://www.bbc.co.uk/education/clips/zxrvj6f>  <https://www.bbc.co.uk/education/clips/zjvfb9q>  **Starter activity – Look around you – what materials can you spot? Are they solid, liquid or gas?**  **Main activity – Build a shelter to protect the cuddly from the weather**   * The shelter must keep the toy dry and warm. * Which material do you think will keep the toy warmest and driest? | **Vocabulary**  Thermal insulator  Water cycle  Solid  Liquid  Gas |
| **Plenary** | * When building a house what do engineers and architects have to think about regarding materials? – strength, flexibility, rigidity, thermal qualities, waterproof, breathable…. |