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| **Year Group - 3 & 4** | **Date – Term Two** |
| **Curriculum Links** | Sc4/1.2    setting up simple practical enquiries, comparative and fair testsSc4/1.3    making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggersSc4/1.4    gathering, recording, classifying and presenting data in a variety of ways to help in answering questionsSc4/4.2a    identify common appliances that run on electricitySc4/4.2b    construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzersSc4/4.2c    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 with a batterySc4/4.2d    recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuitSc4/4.2e    recognise some common conductors and insulators, and associate metals with being good conductors. |
| **Session Procedures** | **Before** - Check for rubbish, glass, hazards. Check weather forecast**During –** Keep vigilant regarding broken branches, slippery groundWear 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** Electricity worksheetWind turbine sheetPin wheel templateDrawing pinsSticksStop watch  |
| **Introduction and Activity Opportunities** | **Indoors –** Watch the <https://jointhepod.org/teachers/films/busta-investigates-wind-power-film> **Starter activity – Electricity Use in the school grounds.**  Children research how much electricity is being used in the school by carrying out a survey using the sheet from ‘The Pod’ lesson plan (keep this to the classroom and average this over the school if there is not enough time). **Main activity – Where would the best place be to build a Wind Turbine to power the school?*** First make the windmill (the instructions and template are on the back of the plan.
* Where do you think the wind will be strongest?
* Discuss where they will measure; how long they will measure for; and where they will record their findings. <http://bpes.bp.com/media/3045/Wind%20Watch%20worksheet%20PDF.pdf>
* Use the BP Wind Watch worksheet 2
 | **Vocabulary**Electricity TurbineEnergyRenewable energyFossil fuelsWind |
| **Plenary** | * Where will the best place be for the windmill?
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