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| **Outdoor Education Plan** |
| **Lesson Focus – Forces in the Playground**  |
| **Year Group - Years 1,2, 3, 4, & 5** | **Term - Four** | **Date – Week 17/02/18** |
|  | **Outline** | **Curriculum Links/****Learning Objectives** | **Health and Safety considerations** | **Equipment** |
| **Session Procedures** | **Before** - Check for rubbish, glass, hazards. Check weather forecast**During –** Remind children about looking after their eyes.**After** – clear everything away and return any natural objects to their original place**Clean hands.**  | Sc3/4.2a    compare how things move on different surfacesSc5/4.2a    explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling objectSc5/4.2b    identify the effects of air resistance, water resistance and friction, that act between moving surfaces | Wash hands after touching outside objectsRemind 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.Wear safety googles to protect eyes when shooting arrows if deemed necessary. | Hi VizCarsFriction ramps |
| **Introduction and Activity Opportunities** | **Start of Lesson –** Watch the BP Forces clip <http://bpes.bp.com/primary-resources/science/ages-4-to-7/forces/introducing-forces/#article1742> Outside today we are investigating **‘Forces’** these are the actions that are made to make things move. We will investigate how the equipment at the park moves.In the 1680s Sir Isaac Newton realised that we are kept on the ground by a ‘force’ called ‘gravity’. We are carrying on his work as we investigate how things move on the earth. * In the equipment area what force do you need to make to move the different equipment – push, pull, slide…
* Do you think that ‘gravity’ effects any of the equipment
* Do you think that friction effects any of the equipment?

At the end of the session recap each piece of equipment walking around and discussing which forces are used on each piece of equipment.  | **Vocabulary** |
| Isaac NewtonForce FrictionPush Pull |
| **Plenary** | * Wash Hands
* Sing the Pushes and Pulls song <http://bpes.bp.com/primary-resources/science/ages-4-to-7/forces/introducing-forces/#article1742>
 | **Evaluation** |