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| **Outdoor Education Plan** | | | | |
| **Lesson Focus – Making a Wind Chime and investigating Sound** | | | | |
| **Year Group -** | | **Term -** | **Date –** | |
|  | **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.** | Science  Identify how sounds are made, associating some of them with something vibrating.  Recognise that vibrations from sounds travel through a medium to the ear.  Find patterns between the pitch of a sound and features of the object that produced it.  Find patterns between the volume of a sound and the strength of the vibrations that produced it’  Recognise that sounds get fainter as the distance from the sound increases. | 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.  Always wear a glove on the hand that you are not holding the tool with  Always make sure that the wood is securely fastened  Be aware of the people around you. | Bamboo  Hacksaw  Workbench  Drill  Plastic  Hole punch  Work gloves  String |
| **Introduction and Activity Opportunities** | **Starter activity – Introduce how sound travels and what we think effects the pitch/volume?**  <http://www.bbc.co.uk/education/clips/zcctb9q>  <http://www.bbc.co.uk/education/clips/zxdf9j6>  **Main Activity – Making a wind chime/experiment with the sounds outside**   1. **(Half the class) Test the instruments to see how they make sound; how you change the volume; how you change the pitch?** 2. **Work through the questions and answer the questions on the sheet.** 3. **Make a straw flute and test changing the pitch.** 4. **(Half the class) Working in groups of 5/6 children are making a wind chime.** 5. **Measure the bamboo cane into 6 different lengths** 6. **Drill holes into the bamboo** 7. **Cut the bamboo lengths** 8. **Thread string through the bamboo and attach it to the bar using a clove hitch – do not leave the string too long otherwise it becomes tangled.**   **Skills – Using a hacksaw, Using a drill** | **Vocabulary** |
| Sound  Pitch  Volume  Saw  Drill |
| **Plenary** | **Which instruments had the highest/lowest?**  **How could you improve your wind chime?**  **Why is sound so important to people?** | **Evaluation** | | |