

# Pan Pipes



Students design and make a working Pan pipe. During the manufacturing process students learn about many different Engineering terms and how to make sounds with tubes. An optional science experiment is also available time permitting (see extension tasks below).

Location: Any Room/hall.

Group size: 4-60.

Recommended Level: KS2.

Cost: £2 per pan pipe.

Consumables: Plastic tube, Insulation tape, 2mm thick 10x50mm card strips (2).

Tools and Equipment: Visualizer, Worksheets, Pipe cutter, Rulers, Scissors, Fair Test Materials

Staffing: Mr. Emanuel & Mr. Woodward, Haywood Engineering Leaders.

Time needed: 1-2 hours.

Extension Tasks: The FAIR test. This is a science Experiment where students carry out a small experiment to see if the material, diameter and or length of a tube make a difference to the sound that is produced (Fair Test Worksheets & materials are Available on Request).

Stoke-on-Trent  
citylearningcentres  
Forward thinking technologies



**Curriculum Areas:** Engineering  
Resistant Materials  
Art  
Music  
Maths  
Science

**Software used:** N/a

**Subject Specific words**

**Tools and Equipment:** Scissors  
Insulation tape  
Card  
Ruler

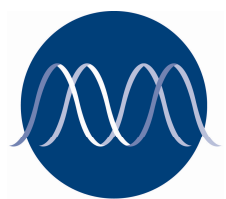
**Other:** Small  
Medium  
Large  
Diameter  
Length  
Material  
Size  
Colour  
Airtight  
Pitch  
Plastic  
Nylon  
Glass

**Health and Safety:** Sharp objects  
Feeling Dizzy  
Choking Hazard

**Functional Skills:** Hand Eye Co-ordination  
Using appropriate tools & equipment  
Art and Design Skills  
Shape and size  
Mathematical  
Safe use of tools and equipment  
Working on a Focused Practical task  
Creative thinking  
Working to a deadline  
Health and Safety  
Musical

**PLTs:** Creative Thinkers  
Self Managers  
Reflective learners and Independent enquirers (with fair test Addition)

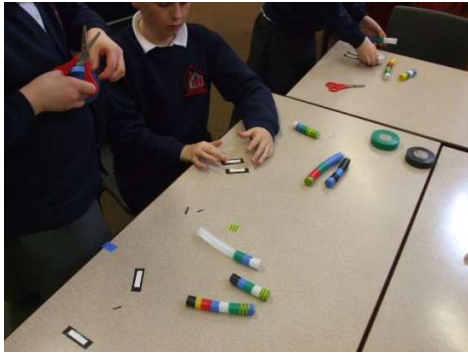
**Every Child Matters:** Enjoy and Achieve  
Stay Safe (through health and safety warnings)



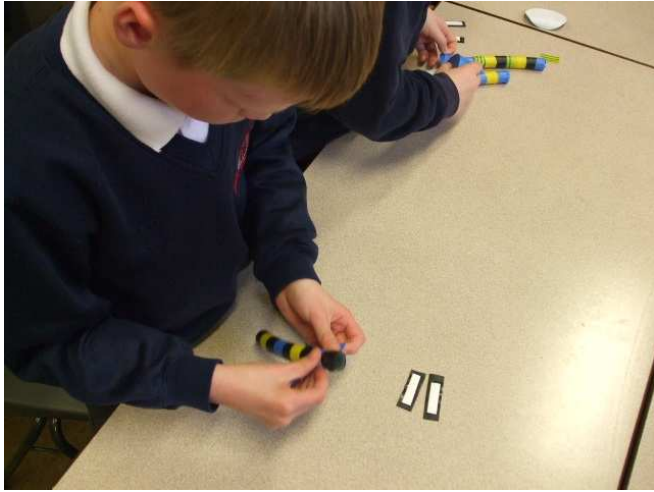
Engineering



Specialist Schools Trust  
EXCELLENCE AND DIVERSITY



# Diameter



# Materials

