

Module 2 – Lesson 2 Plan

Got The Measure Of Things?



This lesson requires a large amount of space and would be great fun for students to do as an outdoor learning activity. You may want to spread the activities over two or three lessons or make it a single day's activity.

Learning Intention

We are learning about how different brass instruments are made. We are measuring lengths to help us construct our own two-dimensional models of each instrument.

Lesson Outcome

At the end of this lesson, we will be able to:

- Discuss how much tubing is used to create each instrument
- Discuss how the size of an instrument affects its sound using appropriate comparison vocabulary such as bigger/smaller, longer/shorter and deeper/higher.

Resources

- Measuring tapes/metre sticks/rulers
- Wool/thin rope (old fashioned washing line rope is perfect for this)
- A large space (ideally outdoors – weather permitting)
- Heavy cardboard cut outs of each brass instrument (see [Got The Measure Of Things? Worksheets for templates](#))
- [The Brassketeers Big Quiz](#)

Introduction

Share the learning intentions for the lesson. Explain that we are going to compare the amount of tubing used in each instrument by measuring out and building our own models.

Activity Time

Working in teams, pupils must select the best measuring instruments and accurately measure out the length of wool/rope to represent each of the brass instruments.

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Model Making

Pupils must now work in teams to coil their rope and attach it to their instrument silhouette, working out the best method of sticking their rope/wool to their cardboard. You can use these models to create a wall display for the classroom or corridor. Pupils could choose a favourite instrument and write about why they like it.

First Level Extension

If you want to extend this activity to include a STEAM outcome, pupils can design their own model trumpet using the links provided on the Scottish Opera website.

Plenary

Quick questions: which instrument uses the longest length of tubing? Shortest length of tubing?
Which instrument has the highest pitch? Why is this?

You can also use **The Brassketeers Big Quiz** to review learning.