



Sound Investigation

Investigation question:

How does distance from the source of the sound (drum / saucepan and wooden spoon) effect the volume of the sound? **Fair Testing**

Context:

Physics - Distance and sound – drum (or a saucepan with a lid) / eyes closed outside if possible. You will need two people for this, one to listen, one to make noise.

Notes:

Does the distance away from the source effect the volume of sound? Including predictions and need for measurable data. Carry out as closed investigation first then use children's own questions to develop further

Sc4/4.1e recognise that sounds get fainter as the distance from the sound source increases



LI: Can I recognise that sounds get fainter as the distance from the sound source increases?

Steps to Success:

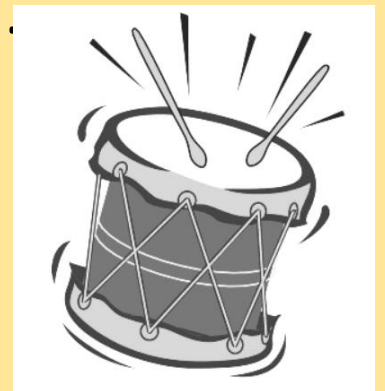
- To be able to use a scientific enquiry to answer a question.
- To be able to set up a simple practical enquiry.

Let's explore sound!

First, we are going to listen to the sound of a drum (or a saucepan with a lid) played at different distances away from us while we have our eyes closed.

What do you think we will hear? Predict what you think will happen.

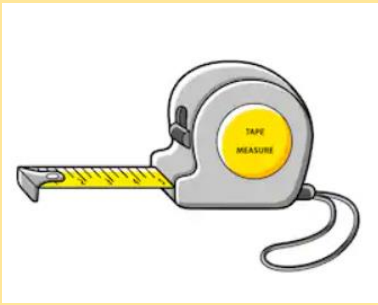
How can we make the test fair?



I predict that:

The sound will be _____ the further away
the sound is made, or _____ the nearer
the sound is made.





What will we need to carry out our fair test?

Paper / pencil



Recording

The children can draw themselves as a cross in the middle of a sheet of paper. They must show where they heard the different sounds; i.e. the relative distance of the thing, and the direction from them.



Comparative test – What happens to the sound of the drum when we get further away from it?

