

What makes a sound?

Y4 Science Investigation

To find out what is needed to produce a sound.



Equipment required for lesson

- Ruler
- Book
- Ping pong balls
- Tuning fork



What makes a sound?

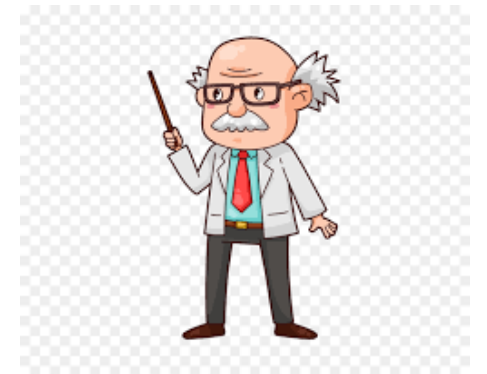
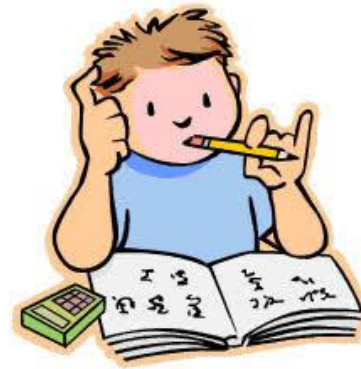
We want to find out what we have to do to produce a sound.

Try to think how we can find out.

Talk with your friends and see if you can come up with an idea.

Your ideas

Tell the rest of the class your idea for your investigation and decide who in the class has the best idea.



What makes a sound?

Make a prediction

I think a sound is produced when:



What makes a sound?

Doing the experiment

- **Make some sounds around the classroom. Bang a ruler on the table, drop something on the floor, snap a book closed.**
- **Write down what has to be done to produce a sound.**
- **Hang a ping pong ball from something. Bang a tuning fork on the table and hold it against the ping pong ball.**
- **What type of movement is made by the ping pong ball.**
- **Is it true that the harder we hit the tuning fork the louder the sound?**
- **So, does a bigger movement make a louder sound?**

What makes a sound?

Questions you need to answer

Are all sounds made by something vibrating?



What makes a sound?

What now?

Try and make something that will produce the loudest sound.

