**Sound and Science Fun – 2nd and 3rd – 4 activities**

1. **Watch** **3 short videos on YouTube**

What is Sound? Dr. Binocs Show <https://www.youtube.com/watch?v=gdGyvGPZ1G0>

Sound Experiments for Kids/Science for Kids – Kids Academy – What Makes Sound? <https://www.youtube.com/watch?v=GzzGFRQQtuE>

How Does Your Ear Work? Dr. Binocs Show <https://www.youtube.com/watch?v=mptjEoHF2aI>

1. **Play a sound guessing game**

listen to the sound, guess the sound, see the sound picture and check your guess (there are 10 different versions of this game on YouTube if you want more experiences)

Guess the Sound game 2 <https://www.youtube.com/watch?v=uTNL3WXEexA>

1. **Do a sound experiment**

Place your fingers lightly on your throat – talk, sing, hum, whisper, shout – do you **feel** the vibrations in your fingers?

How to See Sound experiment <https://www.youtube.com/watch?v=37csXse35YQ>Place plastic wrap tightly over a bowl – place a few grains of rice on top of the plastic wrap – hold a metal tray or pan very close to the bowl (but don’t let them touch) – hit the tray or pan with a metal spoon – what happens to the rice? Does it move? Does anything change if you hit the tray with a wooden spoon?

Put some grains of rice on a metal tray or pan – hold the tray/pan near a stereo speaker – don’t let the tray touch the speaker – play music – does the rice move? What happens if you increase or decrease the volume?

1. **Make an instrument with rubber bands**

Find rubber bands that are different sizes (small, big, thick, thin or skinny). Stretch the rubber band – have someone pluck it. Do you hear a sound? Do you see it vibrating? What happens if you stretch it farther apart? Does it get higher or lower? Do different sizes make different sounds?

Stretch a rubber band over an empty can (be sure the edges are smooth so you don’t cut your finger) – stretch the can from top to bottom – so the rubber band is stretched across the opening – can you play a rhythm pattern?

Stretch the rubber band around a box. Does it sound different from the metal can? Stretch the rubber band around a book. Does that make a different sound?

Decorate your instrument and create your own rhythm patterns playing your instrument. Take a picture or make a video and send it to me. Have fun experimenting and creating! ☺