



Summer Assignment

Howdy soon-to be 7th graders! Over the summer we are going to cover an interesting topic to get us ready for next year. This topic is all about **Sound** and sound waves. There will be plenty of opportunities for you to use your creativity. All summer assignments are due on the first day of school, **August 10th**. They must be all ready to turn in that Tuesday.

Directions

Assignment: Create an original instrument after researching sound basics like pitch and amplitude (see attached lesson) Watch “Landfill Harmonic” to get inspired!
<https://www.youtube.com/watch?v=UJrSUHK9Luw...>

Follow the directions in the assignment handout to construct your instrument. It may make sound either by striking (drum like), blowing through/over (wind instrument), or by plucking strings or other materials (string instrument). It must change pitch in some way (you might need to do some research on this). We will not be having a “concert” until we get back in the fall. You may of course try to have a duet, trio, etc with classmates if you so desire and can meet up/zoom over the summer, but this is not a requirement. You can make your video any time and bring it with you that first week back (flash drive, saved to phone, etc).

CREATE A PROTOTYPE

As you're working, consider the steps you are taking to complete your design. What is working and what is not? Fill out the chart as you go.

What is working?

Where do improvements need to be made?

What do I need to do to make improvements?

SHOW YOUR STUFF

Now it's time to sell your instrument and create your music video. These questions will help guide your thinking and planning for your advertisement and music video.

• How does your instrument work?

• What medium(s) do the sound waves use when your instrument is played?

• How does your instrument demonstrate frequency, amplitude and wavelength?

• How much is it?

• Who is in your band?

• What song are you going to play?

• How are you going to film your video?

• How are you going to edit your video?