

## 4<sup>th</sup> Grade Daily Science Instruction:

In order to log on to Discovery Techbook, the students need to go to the Richlandone homepage. Then select student resources at this point they will select Discovery Education. The students should then enter their log in for their laptops. Once the students are logged in they will see their assignments posted on the dashboard. The students should then complete the assignments as listed below. *Please do not try to access Discovery Education any other way due to the fact that it will not work. I have copied the direct link to the Richlandone home page below. Additionally, supplemental work packets will be provided for each student and this should be picked up at the school.*

Discovery Education: <https://www.richlandone.org/Page/4949>

Flocabulary: <https://www.flocabulary.com/>

In order to log in to Flocabulary the students should use their username and password for their laptop.

### Essential Question:

- ❖ What causes instruments to have different pitches?
- ❖ What is the relationship between sound frequency and sound pitch?
- ❖ What is difference between pitch and volume?

### I can statement(s):

- ❖ I can describe the difference between pitch and volume.
- ❖ I can describe the relationship between sound wave energy and sound volume.
- ❖ I can explain the relationship between frequency, length, tension and pitch.

<b>Day 1:</b>
<b>Discovery Techbook Resources:</b> Sound Waves This assignment will explain to you how sounds are produced, properties of sound and how sound travels. You will also complete an assessment on sound waves.
<b>Day 2:</b>
<b>Discovery Techbook Resources:</b> <b>Pitch</b> This assignment will define the term pitch and variables that affect pitch. You will also complete an assessment on Pitch.
<b>Day 3:</b>
<b>Discovery Techbook Resources:</b> Volume This assignment will define the term volume and variables that affect pitch. You will also complete an assessment on distinguishing Pitch and Volume.

**Days 4:****Flocabulary****Sound**

For this assignment you will watch the video which provides information on how sound is produced, travels, properties of sound, vocabulary word card, lyric lab and quiz.

**Days 5:****Additional Websites for Review:**

Students can use this BBC site to explore sound (pitch, volume). They manipulate musical instruments to demonstrate the various concepts.

[http://www.bbc.co.uk/schools/scienceclips/ages/9\\_10/changing\\_sounds.shtml](http://www.bbc.co.uk/schools/scienceclips/ages/9_10/changing_sounds.shtml)

This Study Jams video explains how sounds are made and the difference between pitch and volume.

<http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/sound.htm>

This Prezi presentation demonstrates how sound waves travel through different forms of matter (solids, liquids and gases). It also explains how sounds are formed.

<https://prezi.com/31lamqnlnegz/how-does-sound-travel-through-different-states-of-matter/>

Students can use this Study Jams Video to learn more about Reflection, Refraction and Absorption.

<http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/light-absorb-reflectrefract.htm>

In order to better prepare students for the SCPASS/Bench Mark Exams State Exam I recommend reviewing pretty much everything that we have learned all year. I strongly recommend 30 minutes per day. This can be done using Discovery Techbook due to the fact that it is the student's online text book.

**Weather:**

- + Weather Tools/Instruments
- + Analyzing weather graphs
- + The water cycle
- + Clouds
- + Condensation and Evaporation

**Solar System:**

- + Identifying the planets and constellations
- + The difference between rotation and revolution
- + Shadows and the reason behind its change in length
- + Cause for seasonal changes
- + Phases of the moon

**Light:**

- + Properties of light
- + The difference between reflection and refraction
- + How distance affects the brightness and intensity of light
- + The difference between concave and convex lenses.

**Sound**

- + Properties of Sound
- + How is sound produced?
- + The difference between pitch and volume