

Science - Physics  
Lesson 12 -  
Sound 4

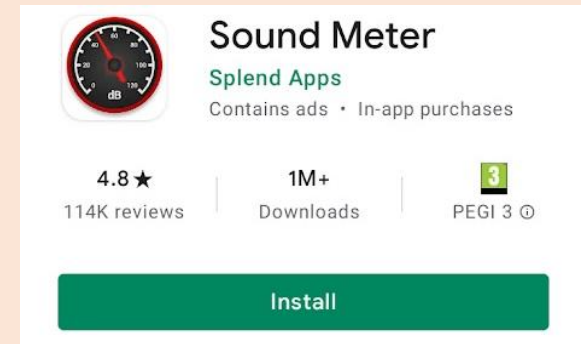
Recall:

1. What did you do in yesterday's experiment?
2. What did you find out?
3. What is dB?

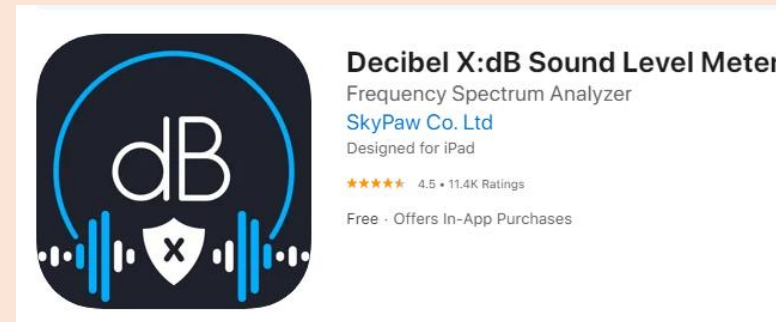
## Experiment - preparation.

You will need a phone or a tablet to conduct this experiment. You have to download one of the following apps on your phone or a tablet. Each app will measure the level of the sound in decibels (dB).

Android phone/tablet: Sound Meter by Splend Apps



iPhone or iPad: DecibelX app by SkyPaw



# Experiment -preparation

Find things in your house that can make loud noise, for example:

- alarm clock, can be found on the phone.
- a pot and a spoon to make noise
- A TV
- A radio
- Alexa echo dot

Other things that can generate loud sound.

Now, test them if you can make them sound loud (switch the TV on, turn the volume up, do the same thing with a radio and other things if possible)

# Experiment

1. Start the app measuring sound level on your mobile phone or a tablet.
2. Check the value in dB when your sound making device is off.
3. Turn the volume of the device up so that it's loud (don't make it too loud).
4. Record the value of dB from the app in the table in "The room where the object is" column.
5. Now, go to a different room downstairs - make sure you don't close the door. Record the values shown by the app in "Different room downstairs" column.
6. Now, go upstairs to one of the bedrooms and record your results in "A bedroom upstairs" column.
7. Finally, go to a bathroom and record the readings in "A bathroom upstairs" column.
8. Do the same steps for other devices making loud sound.
9. Upload your table on Class Dojo.
10. Answer the questions on the last page.



# Questions

1. Where was the sound loudest?
2. Why do you think it was loudest in this place?
3. Where was the sound the quietest?
4. Why do you think it was the quietest in this place?
5. What was happening to the sound when you were in other rooms than the source of the sound?