

Science - Physics
Lesson 10 -
Sound 3

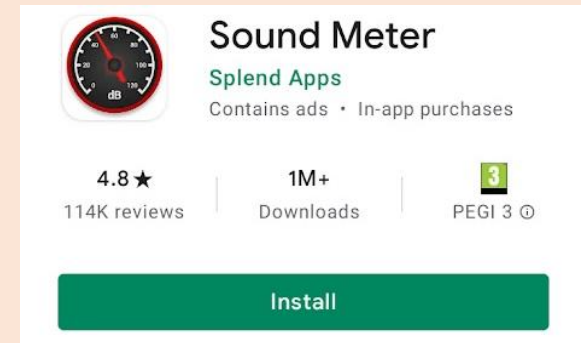
Recall:

1. Which room in your house is the loudest and why?
2. Which room in your house is the quietest and why?
3. How did you know which room is the loudest and which room is the quietest?

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



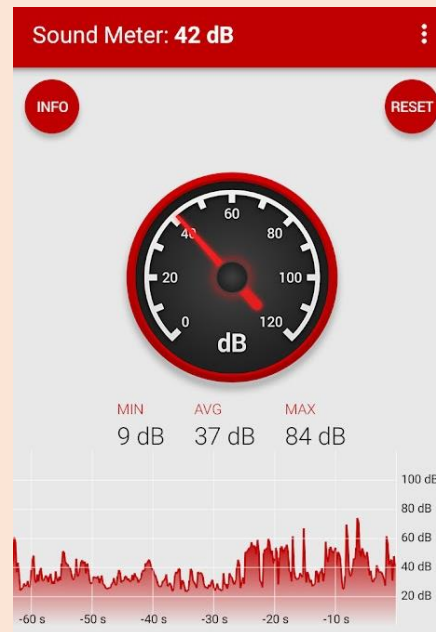
Experiment preparation - table - print or draw this table.

Area where you are sitting.	Readings from the sound metering apps in dB		
	Minimum	Average	Maximum
Kitchen - closed window			
Kitchen - open window			
Living room - closed window			
Living room - open window			
My bedroom - closed window			
My bedroom - open window			
Bathroom - closed window			
Bathroom - open window			
Back garden			
Front of the house			
Other:			
Other:			

Experiment

Walk to different rooms of your house and around your house outside and fill in the record sheet writing down values your sound meter is displaying.

These are the values I could see in my bedroom in the morning, while the window was open.



Your results. Upload your table on Class Dojo and answer the following questions:

1. Which room of the house had the lowest values in dB?
2. Which place in or around your house was the loudest and had the highest values in dB?
3. Which rooms got louder after opening the window? Why do you think it happened?
4. Do you think your results would be the same at different times of the day? Explain your answer.