



# SOUND WARRIORS

## ACTIVITY SHEET 1 - HOW TO MEASURE SOUND

	Name
	Date

### SUMMARY

The objective of the experiment is to find out how to measure the sound of everyday objects, and to see what happens as you take measurements at different distances.

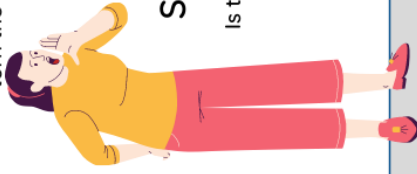


### RESULTS



TV at 60% volume

What happens to the sound reading when you turn the volume up or down ?



Someone shouting

Is there a difference between a male and female voice?

dB(A)		
1 metre	2 metres	3 metres
1 metre	2 metres	3 metres

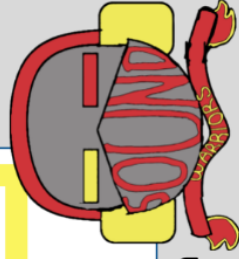
Loudness is measured in decibels. You can download any decibel meter for free onto your smart device, and then you are ready to start measuring. Remember to wear hearing protection if you plan to measure anything louder than a busy street 85 dB(A)

Always ask the owners permission before downloading apps



Try other experiments

Such as a hair dryer, school disco, your school canteen, a dog barking



Use our Decibel scale to find out maximum exposure time for each experiment. Email your findings to [Hi@SoundWarriors.org](mailto:Hi@SoundWarriors.org)