

1.4 Investigation: Stopping Sound

Equipment

Small whistle or other sound instrument

Various materials (paper, cardboard, plastic (clear and opaque), cotton and synthetic fabrics)

Digital sound level meter, sensor or sound level App for phone or tablet
(See Year level Equipment List)

Prediction: What materials will stop sound?

Method

1. Two people are needed, a Sender and a receiver.
2. Select your first material, use it to cover the ear of the receiver
3. Have the sender, blow the whistle at least 1 metre from the receiver.
4. Record the sound as loud, medium or soft. (or a number with a sound meter)
5. Now repeat this other different materials.
6. Don't forget to do no material as one of the results.

Results

Results

material	loudness
1.	
2.	
3.	
4.	
5. None	

Conclusion

1. Did your results match your prediction?
2. What suggestion can you make to make a room quiet?