

1.3 Investigation: How can we stop Light?

Aim

To have students explore the best materials for stopping light.

Equipment

Small 2 volt torch

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

Digital light meter, sensor or Light meter APP for Phone or Tablet (See Year Level Equipment List)

Prediction: What materials might stop light?

Method

1. Select your first material and shine the torch through it. Did much light come through?
2. Record the brightness as bright, dim or dark. (Use a number if you have a light meter)
3. Try the other materials.
4. Don't forget to always test no material for comparison.
5. Does it matter where you put your torch?

Results

Material	Brightness
1.	
2.	
3.	
4.	
5. None	

Conclusion

1. Did your results match your predictions?
2. What suggestions would you make to make a room dark?