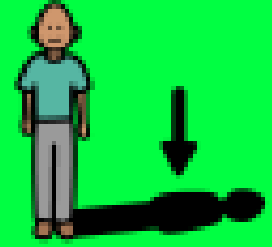




light



shadow

# KS4 Science

## Light and Shadows



Demonstrate how shadows are made and how they change shape.



Explain how shadows are made.



Explain how shadows change shape depending on where the light is.

We are also developing our:

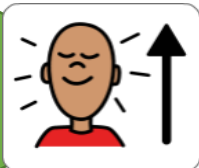
**Teamwork**



**Self Management**



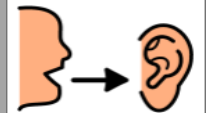
**Self Belief**



**Problem Solving**



**Communicate**



Keyword

**word**



light



dark



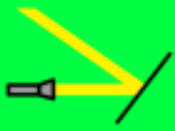
long



short



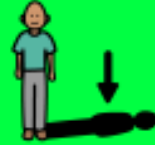
shape



reflect



puppet



shadow



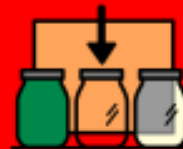
glass



straight



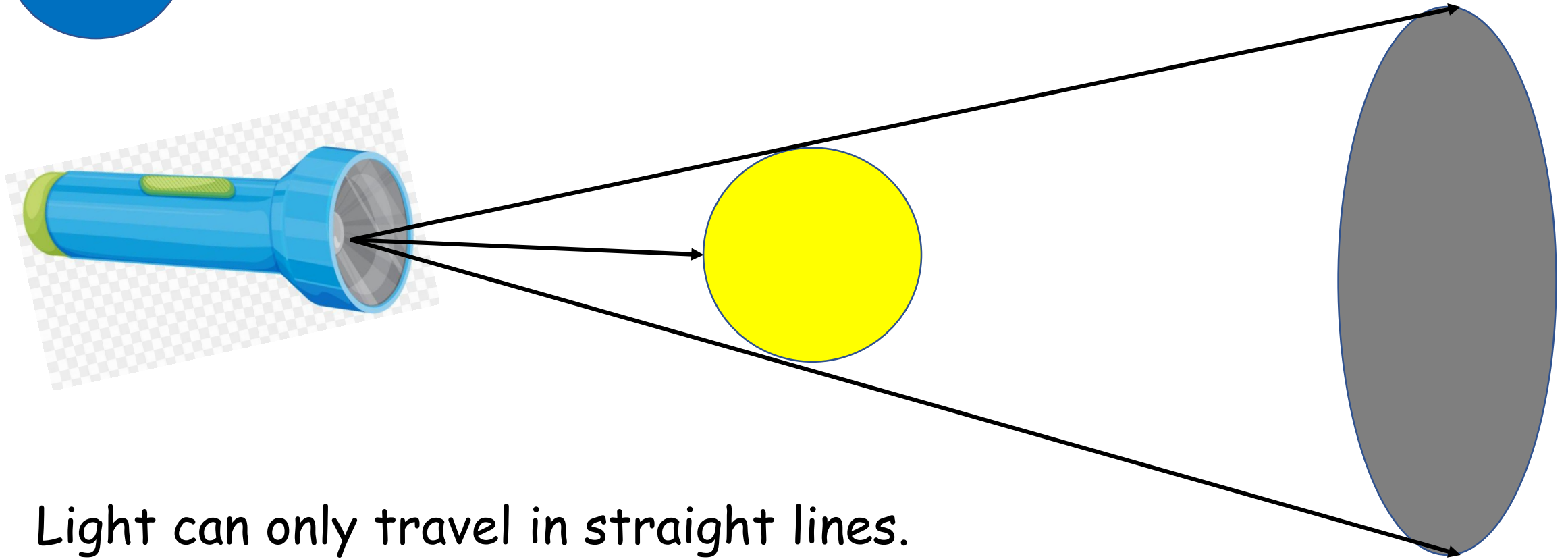
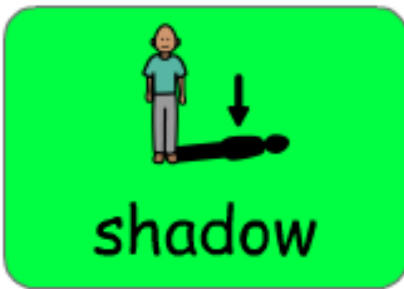
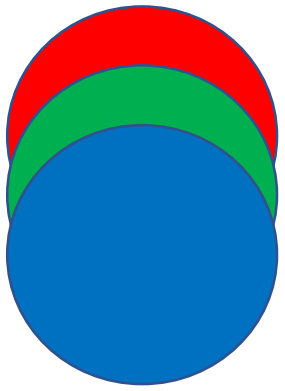
translucent



transparent

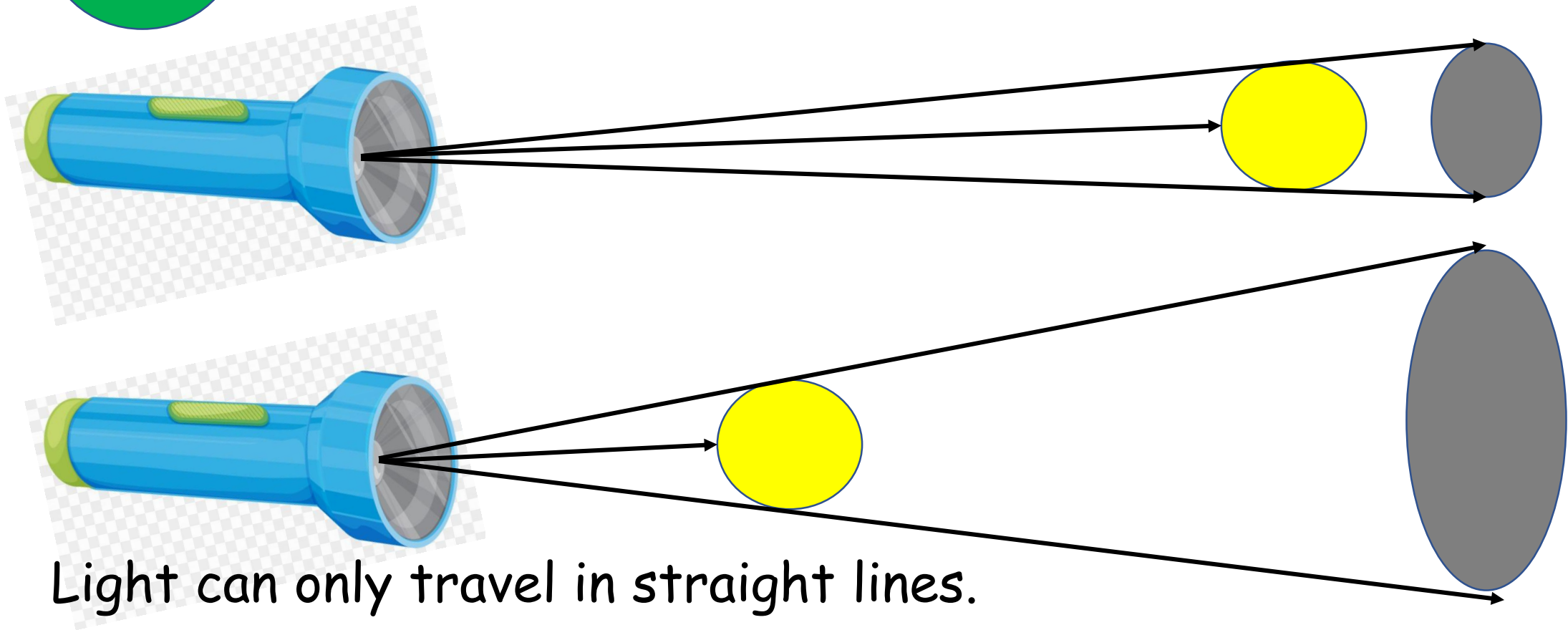
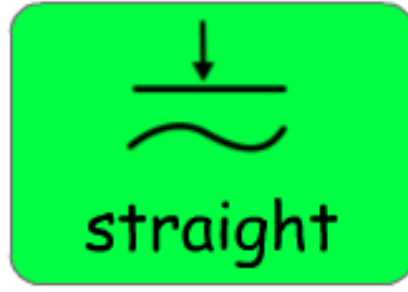
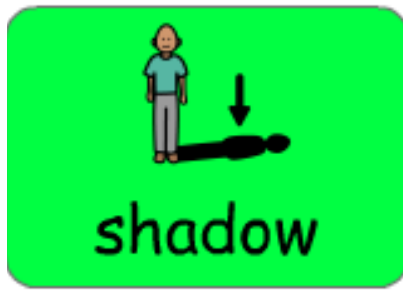
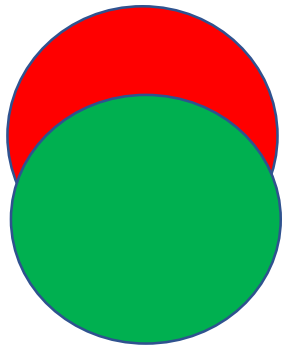


opaque



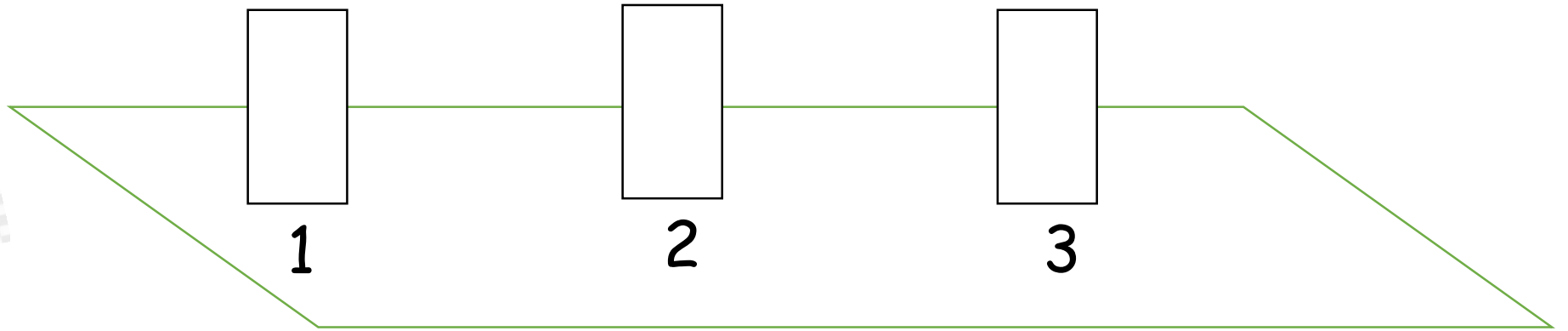
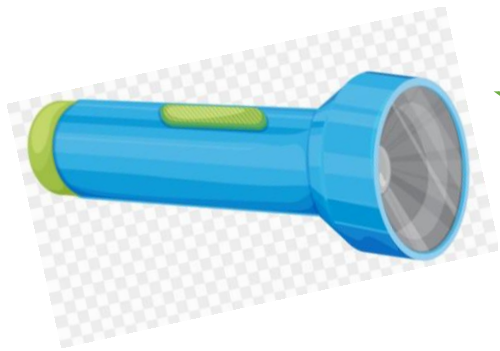
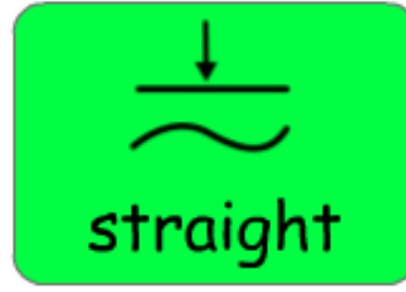
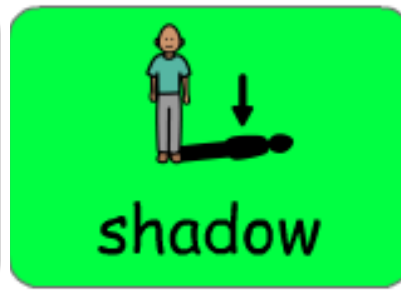
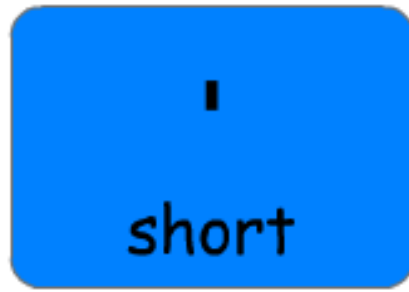
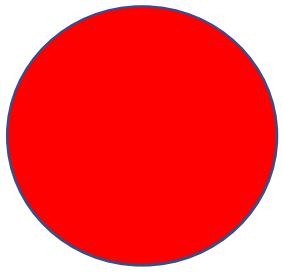
Light can only travel in straight lines.

Shadows are made when light cannot get through an object.



Light can only travel in straight lines.

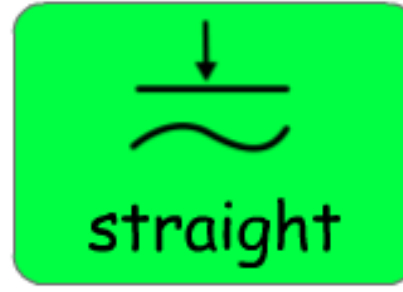
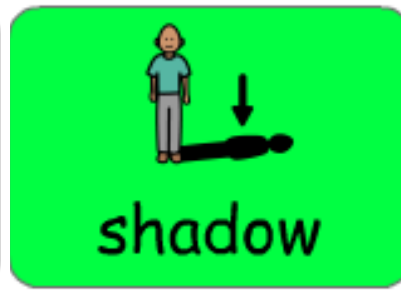
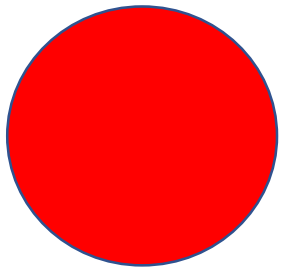
Shadows are made when light cannot get through an object.



Put the small square on paper and draw the shadow in 3 places.

Light can only travel in straight lines.

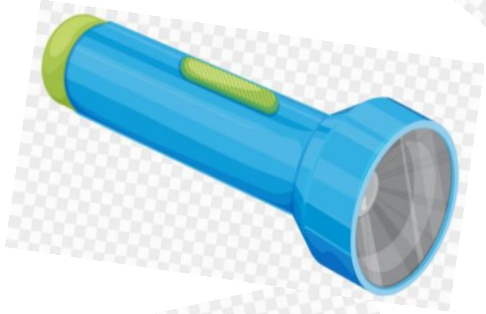
Shadows are made when light cannot get through an object.



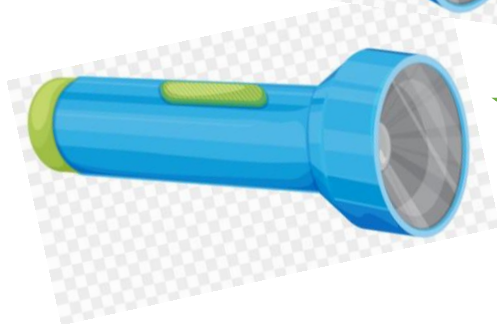
3



2



1



Put the small square on paper and draw the shadow. Move the torch and draw again.

Follow these links for more activities on light and shadows.

[www.purplemash.com/app/games/2diy/shdows\\_placing](http://www.purplemash.com/app/games/2diy/shdows_placing)

[www.central.espresso.co.uk/espresso/modules/s2\\_light/shadows/index.html](http://www.central.espresso.co.uk/espresso/modules/s2_light/shadows/index.html)