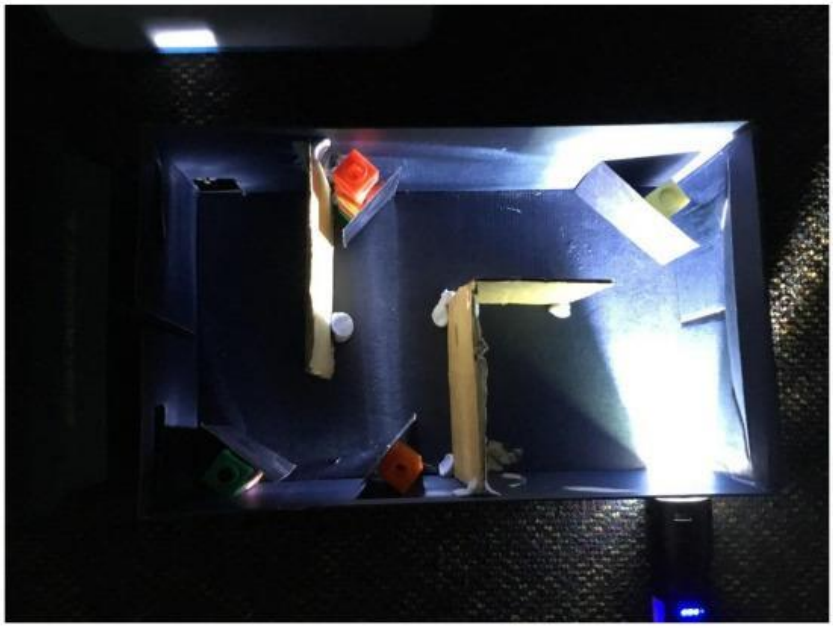
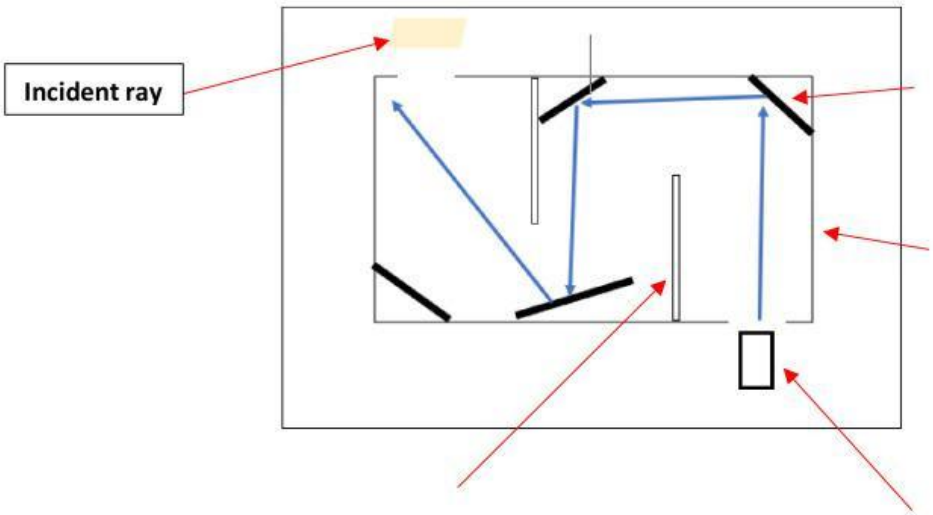
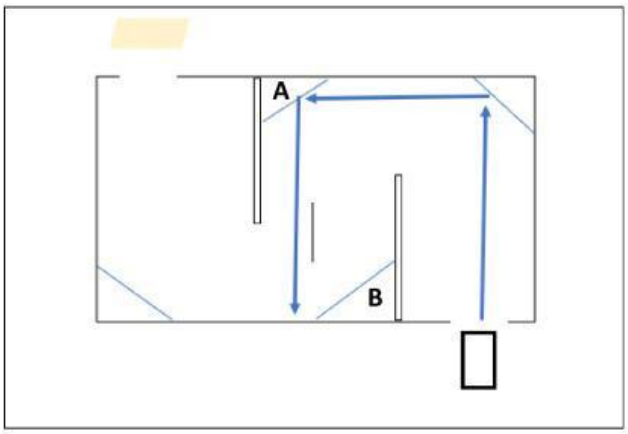
Light Maze and Properties of Light



Label the parts of the light maze.



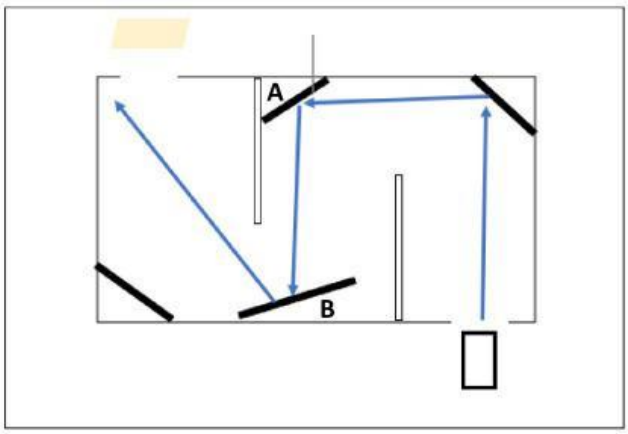
What is wrong with this light maze?



How could I make the light continue through the maze?

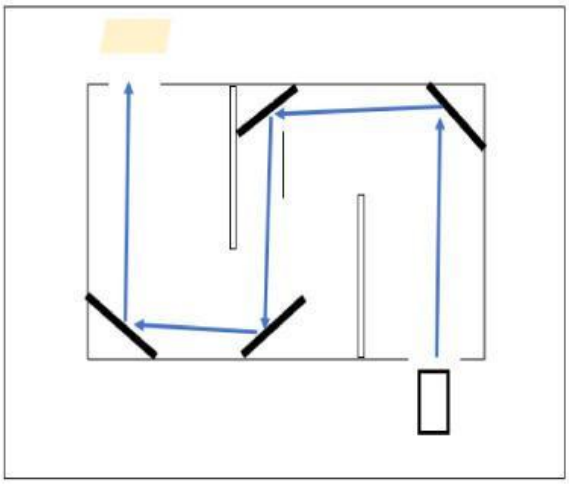
LIVEWORKSHEETS

What is wrong with this light maze?



How could I make the light continue through the maze?

Explain how light moves through the maze.

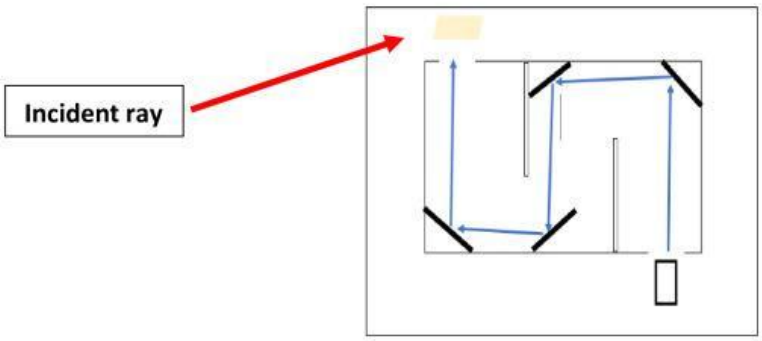


from the torch ( ) enter the maze. They travel in . If there are no mirrors the will hit the wall and most of them will be . Some will be .

To make the light move through the maze we need to use which will all of the .

By adding more mirrors and changing the and the of the mirrors we can direct light through the maze and out of the rear door. When light exits the rear door the incident ray is the shape as the doorway.

How could we change the maze in order to change the appearance of the incident ray.?



Change the position of the mirrors.

Change the angle of the mirrors.

Use a torch with more lumens

Use a different colour light source

Change the shape of the doorway.

Change the colour of the doorway.

Change the position of the walls

Put a lens in the doorway

LIVEWORKSHEETS

I want to investigate if adding a blue filter to the doorway changes the incident ray.

What variables will I keep the same?

The light source **The size of the box** **The shape of the doorway**

The colour of the doorway **The size of the doorway**

The size of the mirrors **The position of the mirrors**

The intensity of the light beam **The colour of the light beam**

What variables will I change?

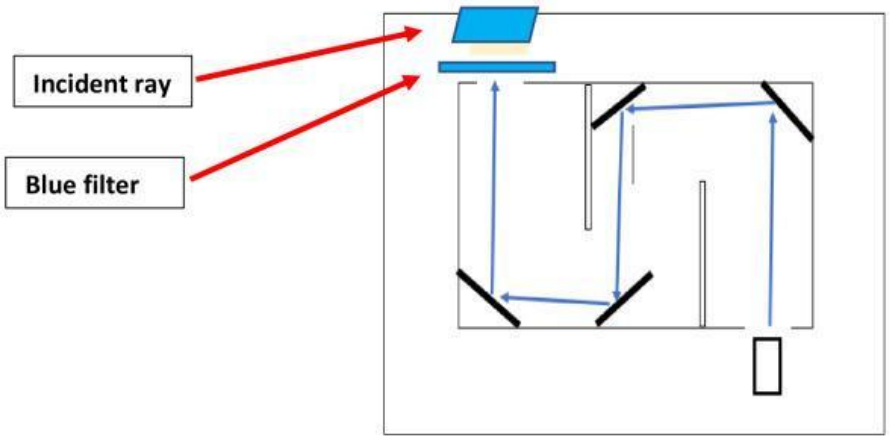
The light source **The size of the box** **The shape of the doorway**

The colour of the doorway **The size of the doorway**

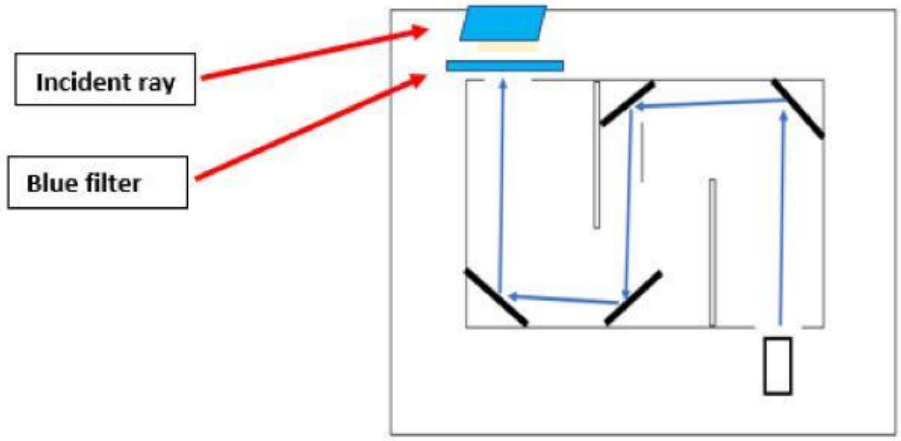
The size of the mirrors **The position of the mirrors**

The intensity of the light beam **The colour of the light beam**

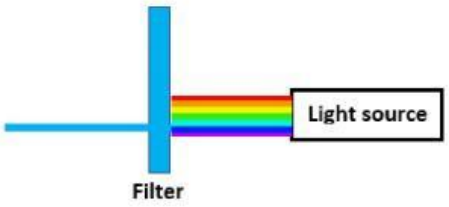
When I conduct the experiment the incident ray turned blue.

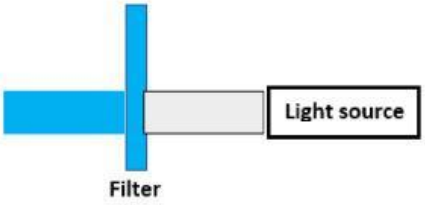


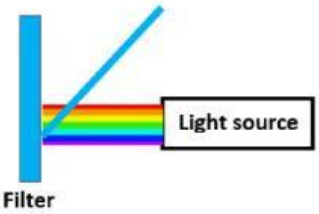
LIVEWORKSHEETS

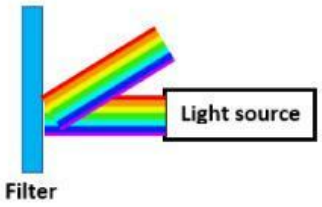


Which diagram shows or explains why the incident ray is blue.









Explain how a blue filter changes the light exiting the maze.

White light is made up of . When the white light hits a blue filter, all of the light rays except for the which the filter.

LIVEWORKSHEETS