

Year 5 See the Light

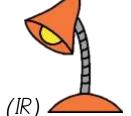
STUDENT WORKSHEET

WORKSTATION #1 – ABSORPTION

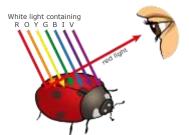
1a) Which light energy was absorbed by the beads to make them change?







1b) Colours we see are a combination of different colours of visible light being ABSORBED or REFLECTED



What is your favourite	coloured shirt to wear?	
Which colour/s of light	are reflected by this shirt?	
	are absorbed by this shirt?	
J	J	

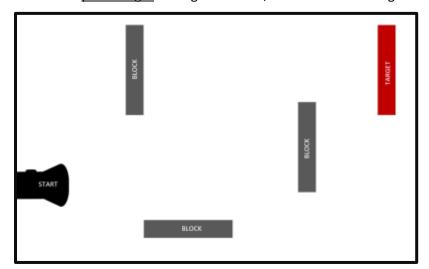
WORKSTATION #2 - REFLECTION

Circle the mazes that you solved:

2a) Can you solve the maze below with only 2 mirrors?

Draw...

- The location and angle of the mirrors that reflect the light from the torch to the target.
- A line to show the <u>path of light</u> through the maze, with arrows showing the direction it travels.



Key Use these symbols	
in your diagram	
Mirrors	
Light path	

WORKSTATION #3 - REFRACTION 3a) TRI-CHALLENGE: Switch on all THREE light beams. Which prisms/lenses refract the light so all THREE light beams cross at one point? Circle TWO answers: 3b) UNI-CHALLENGE: Switch on ONE light beam. Put the triangular prism in front of light source like the picture below. Draw the path of light as it leaves the prism. Bonus: Add the symbols Triangular prism below to your diagram Direction change **WORKSTATION #4 - SHADOWS** Circle the shadow puzzles that you solved: 1 2 3 6 Question 4a) Use the word bank to complete the paragraph to describe how a shadow is made. A ______ is made when an object blocks _____. ____ objects block all light creating dark shadows. _____ objects block some light, whereas _____ objects allow all light to pass through and do not make shadows.

Extras for Experts!

transparent

Question 4b) How can you change the size of a shadow?

Match the words to their definitions

Refraction -

WORD BANK: Translucent

Reflection - - The absence of light on a surface, caused by an opaque or translucent object blocking the path of light from a source.

- The process by which energy like light bounces off an object or surface.

light

shadow

Орадие

Absorption - - The change of direction of light as it passes from one medium to another.

Shadow - - When light energy is transformed/used by an object rather than being reflected or refracted.