## Lesson 10 - Review of Light

Science - Physics - Key Stage 3
Light and Space

Miss Wickham

Drawing ray diagrams and properties of light

## Drawing ray diagrams



## True or false?



## Reflection and refraction

## Task - compare reflection and refraction

Include:

- Definition for each
- Practical to demonstrate reflection and refraction (what are the similarities and differences?)
- Draw a ray diagram to show reflection and refraction
- Examples of reflection and refraction in everyday life

The law of reflection is the angle of....
Refraction is caused when light enters a new...
During the reflection and refraction practical...
An everyday example of refraction...

## Reflection

Incident ray
Normal line



## Vision

Task - label the parts of the eye


Cornea Pupil Retina Optic nerve Lens Iris

## Task - Match up the part of the eye to the function

| Part of the eye |
| :--- |
| (1) Iris |
| (2) Pupil |
| (3) Cornea |
| (4) Lens |
| (5) Retina |
| (6) Optic nerve |

## Function

(a) Refracts light
(b) Coloured circle, controls the size of the pupil
(c) Light-sensitive layer at the back of the eye, made up of rods and cones
(d) Black part of the eye, lets light in
(e) This focuses light onto the retina
(f) Carries messages from the retina to the brain.

## Correcting vision

| Short <br> sightedness |
| :--- |
| Long |
| sightedness |


| Focal point in |
| :--- |
| front of the |
| retina |
| Focal point |
| behind the |
| retina |

Concave lenses

Convex lenses

## Colours

## Answer the following questions

1. Name the 7 colours of the visible light spectrum.
2. State the 3 primary colours.
3. What 2 colours make cyan?
4. How does a filter work?
5. Explain why a white wardrobe appears white in white light.
6. What colour would blue jeans appear in red light?
