

Lesson 6 - Vision

Science - Physics - Key Stage 3

Light and Space

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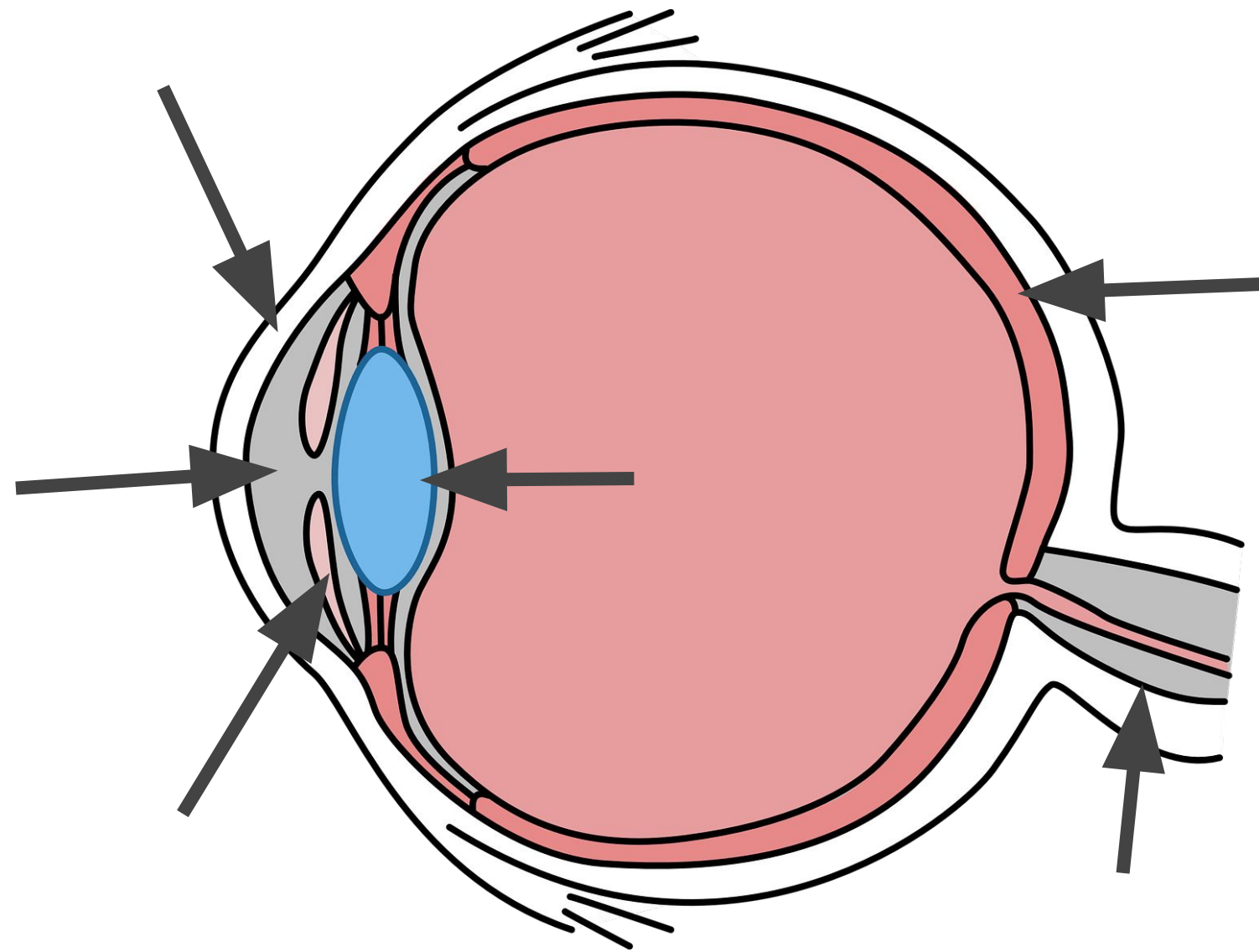


Recap questions

1. Which word describes light waves travelling through a material?
T_____
2. What is the meaning of the term absorption?
When light is not r_____ from or t_____ through a surface
3. What happens to a light wave that meets a shiny surface like a mirror?
R_____
4. What is the name of the line drawn perpendicular to a mirror or surface?
N_____ line
5. What is an 'incident ray'?
The ray leaving the light source and moving towards a _____



Task - label parts of the eye



Eye diagram, ArtsyBee [Needpix]

Lens
Retina
Optic nerve
Cornea
Pupil
Iris



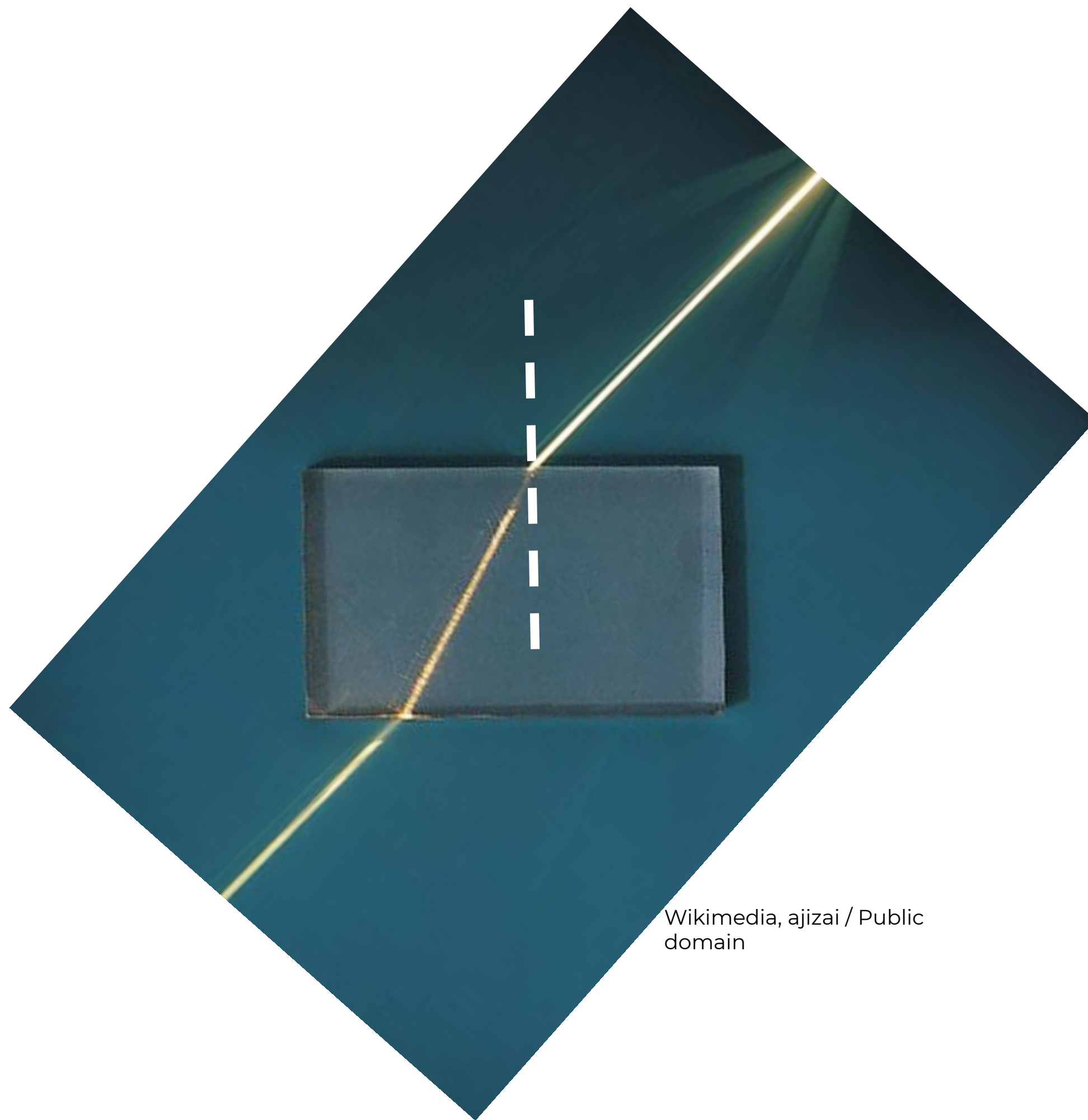
Task - Match up the part of the eye to the function

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.



Recap



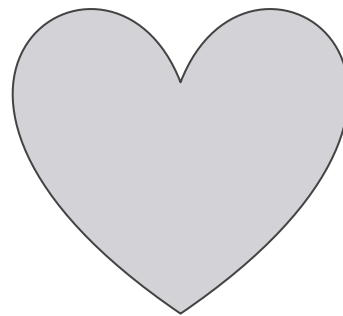
The image shows
light...

This happens because...

Wikimedia, ajizai / Public
domain



Task - draw a ray diagram to show how the image is seen in a pinhole camera



Describe how light from an object ends up being an image in the brain.

Light rays are reflected off...

The ray is _____ by the cornea...

The rays crossover to form an..

Key words: reflect, cornea, pupil, lens, refract, retina, inverted, optic nerve, brain, electrical impulse

