

# WJEC Wales Biology GCSE

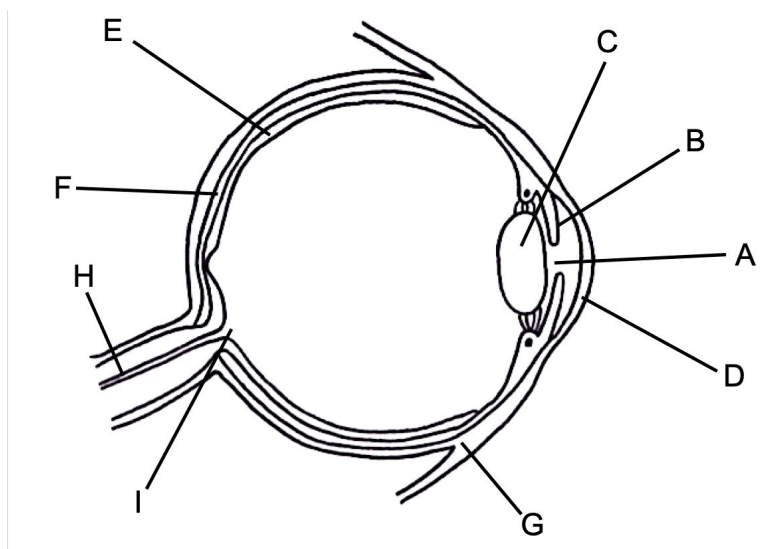
## 2.5 (e) - The Eye

### Flashcards

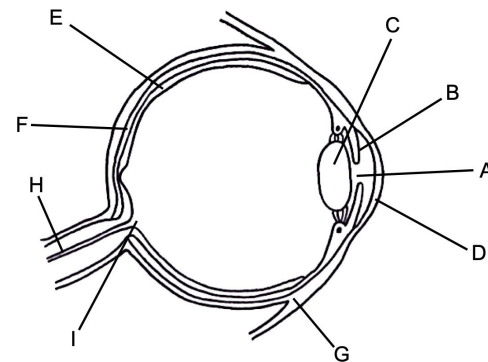
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# Identify the structures of the eye labelled in the diagram below



Identify the structures of the eye labelled in the diagram below



<b>A</b>	pupil	<b>F</b>	choroid
<b>B</b>	iris	<b>G</b>	sclera
<b>C</b>	lens	<b>H</b>	optic nerve
<b>D</b>	cornea	<b>I</b>	blind spot
<b>E</b>	retina		



# Outline the structure and function of the cornea



## Outline the structure and function of the cornea

- Transparent outer covering of the eye
- Refracts light entering the eye



# Outline the structure and function of the iris



## Outline the structure and function of the iris

- Pigmented ring of circular and radial muscles
- Controls the size of the pupil to alter how much light enters the eye



# What is the pupil?





# What is the pupil?

A hole in the iris centre that allows light rays to enter the eye



# Outline the structure and function of the lens



## Outline the structure and function of the lens

- Transparent, bi-convex structure
- Flexible, changes shape (accommodation)
- Refracts light, focusing it onto the retina



# Outline the structure and function of the choroid



## Outline the structure and function of the choroid

- Black pigmented layer
- Absorbs light, preventing internal reflection



# Outline the structure and function of the sclera



## Outline the structure and function of the sclera

- Opaque, white protective outer layer
- Transparent at the front
- Maintains eyeball shape



# Outline the structure and function of the retina





## Outline the structure and function of the retina

- Light-sensitive layer containing photoreceptors
- Converts light energy into neural signals which are sent to the brain via the optic nerve



# What is the function of the optic nerve?



# What is the function of the optic nerve?

It transmits nerve impulses to the brain from the retina



# What is the blind spot?



## What is the blind spot?

- Where the optic nerve leaves the eye
- No photoreceptors found here

