APERTURE

BBS

GCSE Photography

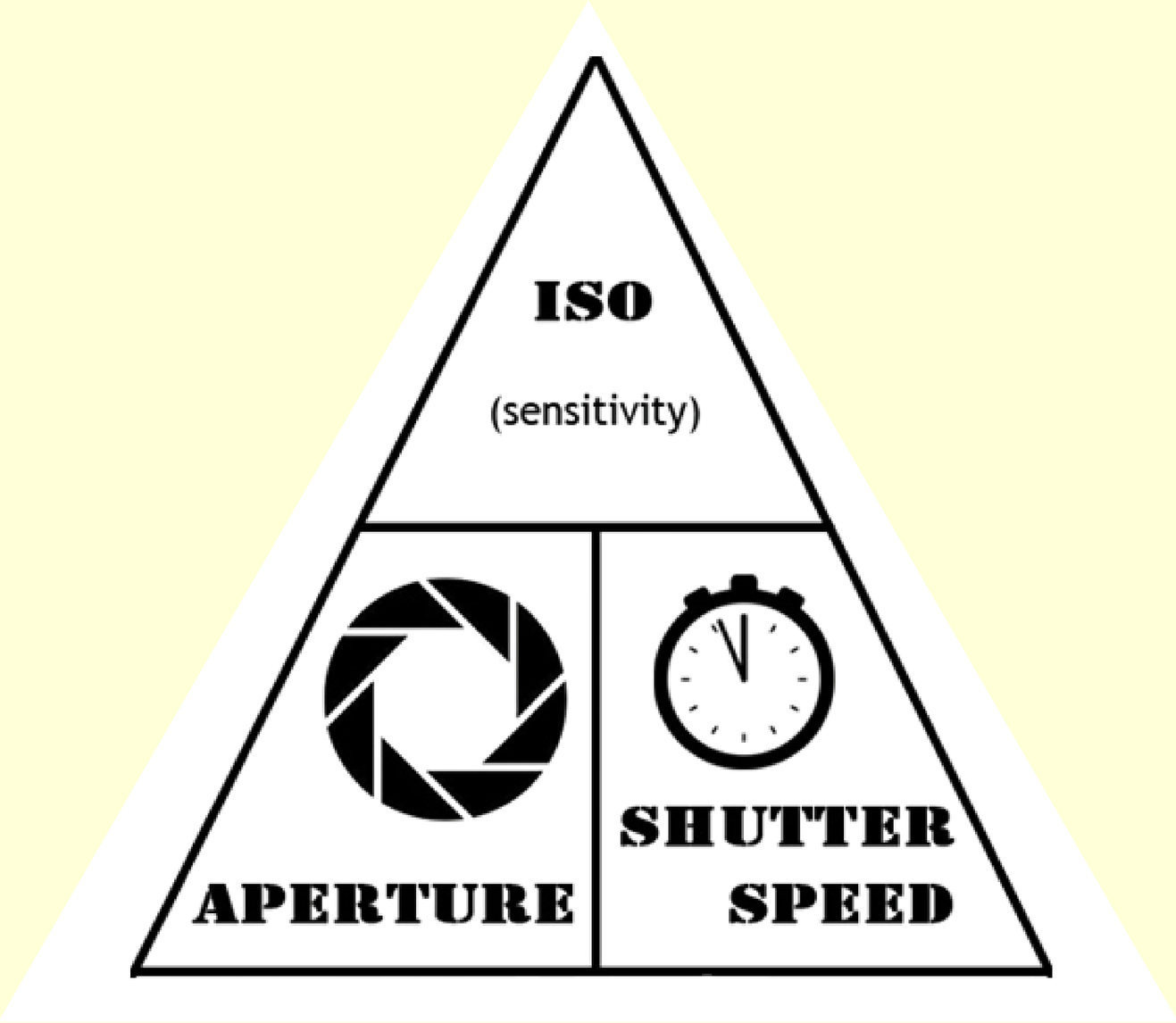
WHAT IS ‘EXPOSURE’ ?

'EXPOSURE IS THE AMOUNT OF LIGHT YOU INTRODUCE TO FILM OR AN IMAGE SENSOR.'

THIS THEN DETERMINES WHAT IS ACTUALLY RECORDED, TO CREATE A PHOTOGRAPHIC IMAGE

There are three adjustable elements that control the exposure…

ISO, Aperture and Shutter Speed.



This is the

Exposure triangle

APERTURE

The Aperture is a hole over the lens that lets in light.

A camera's aperture setting, controls the area which allows light to pass through your camera lens.

Your pupil does the same thing.

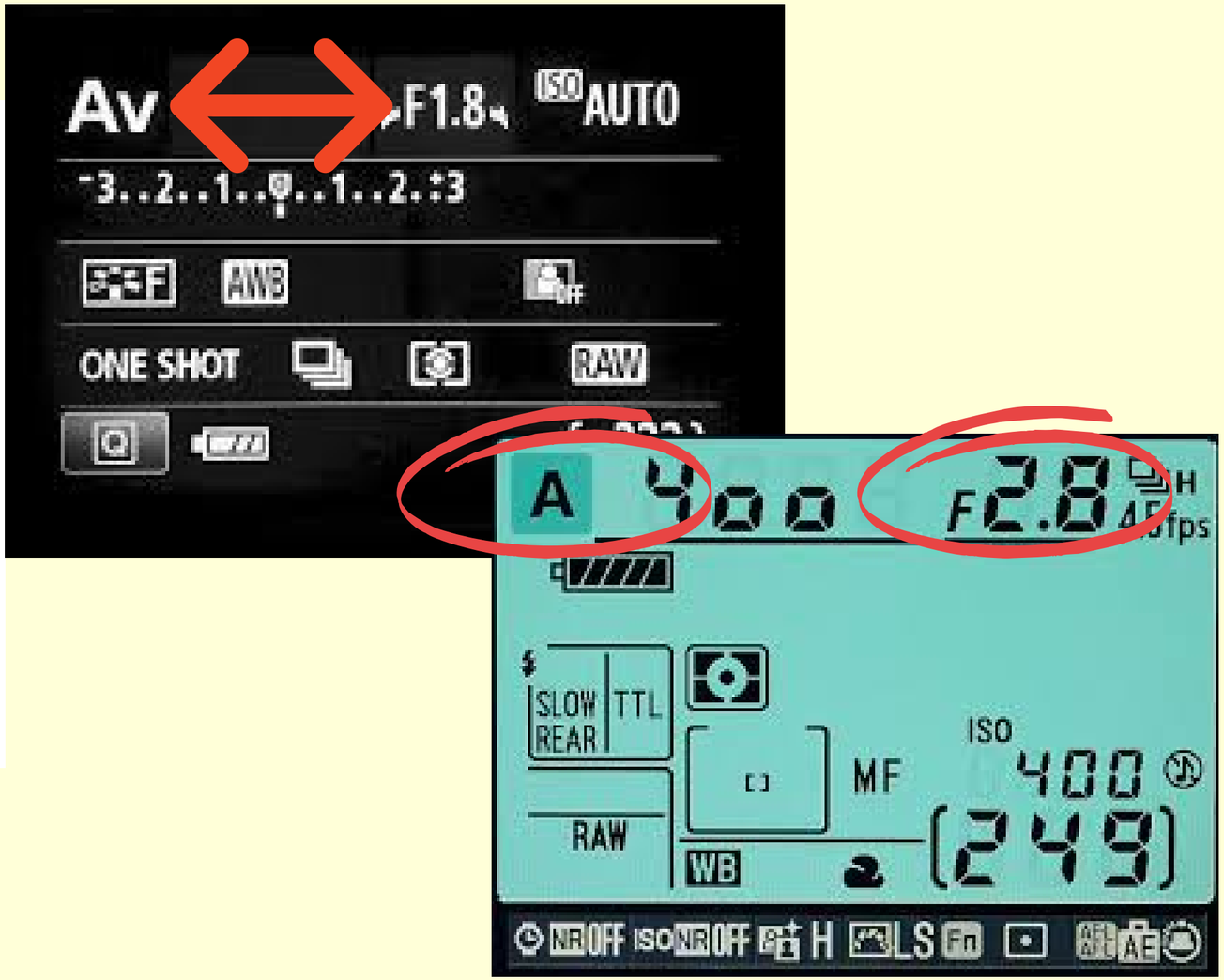
Dark conditions, pupils gets larger to let in more light

Light conditions, pupils gets smaller to let in less light

You need to have your camera in 'Aperture priority' mode.

You control the aperture, the camera will automatically adjusts the shutter.

Practise changing the aperture – what is the aperture range on your camera?



Or any other make

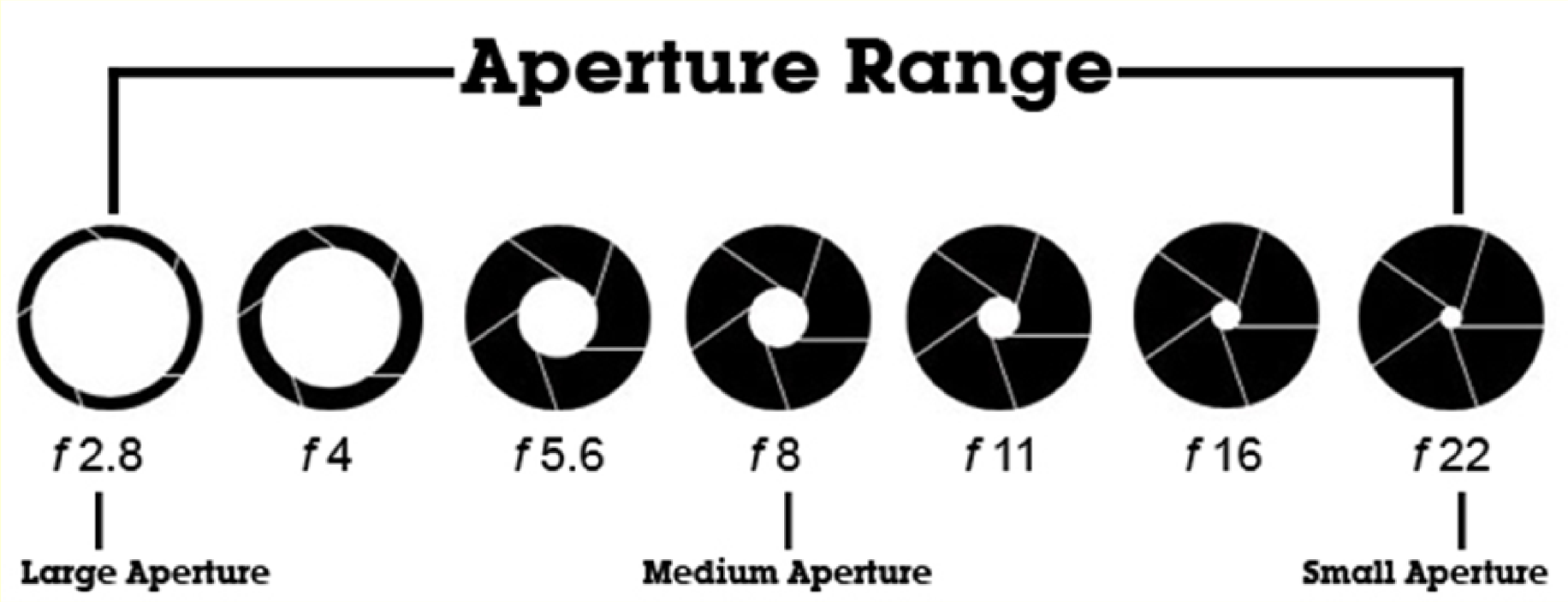
APERTURE

Aperture is measured in ‘F-stops’.

F stands for ‘Focal Length’

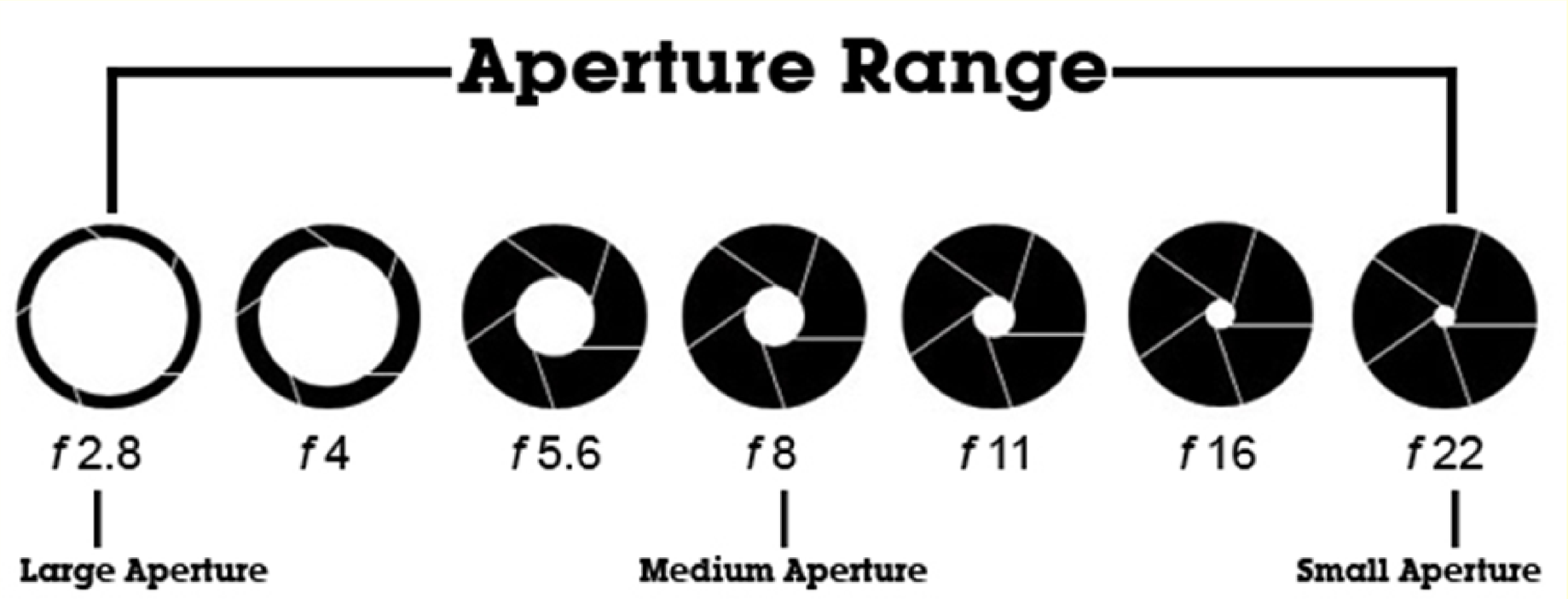
These are seen as a series of numbers with an ‘f’ in front

e.g f2.8, f5.6, f22



When you change from one aperture to the next it is called moving down/up a 'stop'

APERTURE

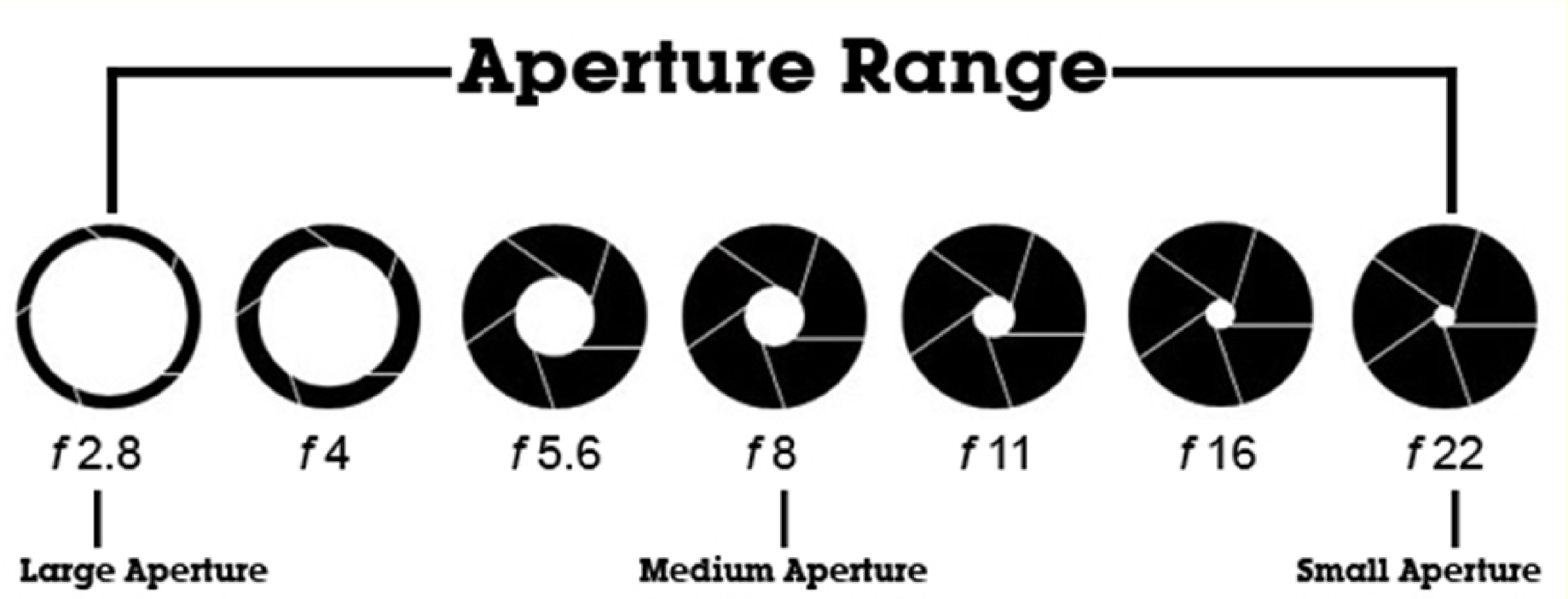


More light

Less light

Is there anything you notice?

APERTURE



More light

Less light

small number = large aperture

big number = small aperture

APERTURE & DEPTH OF FIELD(DOF)

Depth of Field (DOF)is the distance between the nearest and the furthest objects that appears 'sharp' or 'in focus'

The DOF is controlled by the aperture.

It also is dependant on what you are focusing on.

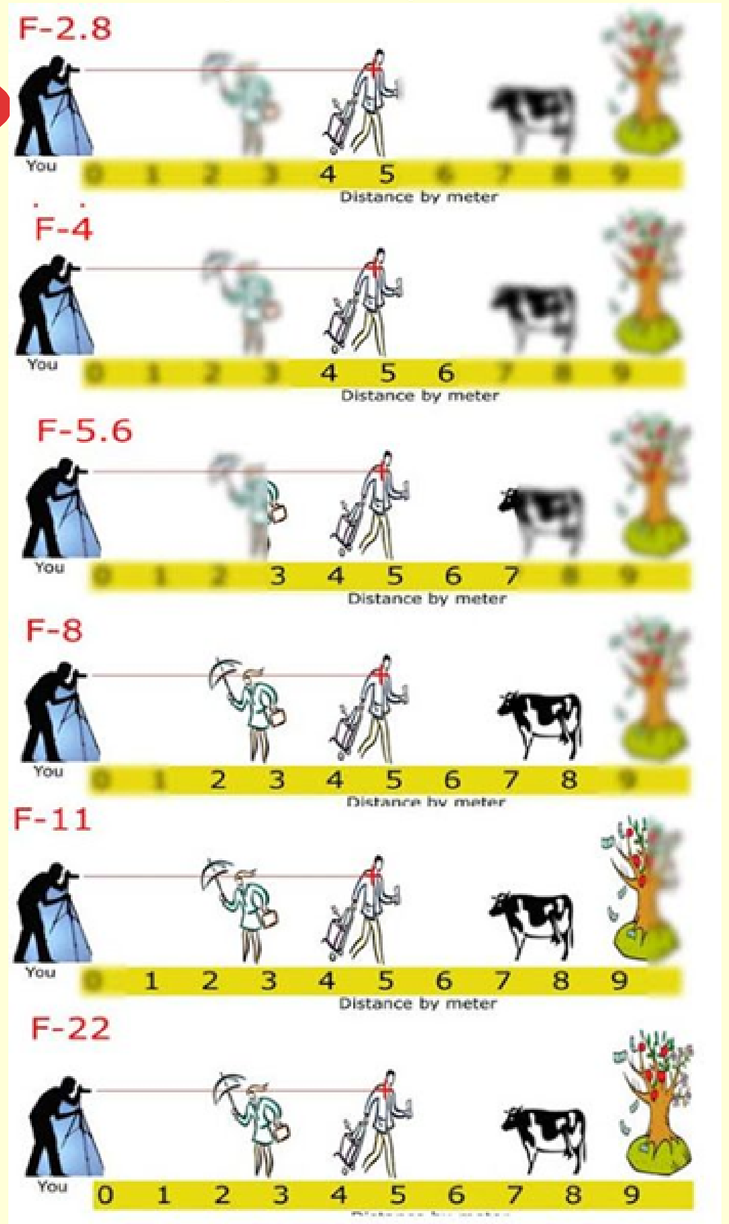
APERTURE & DEPTH OF FIELD(DOF)

Depth of Field (DOF)is the distance between the nearest and the furthest objects that appears 'sharp' or 'in focus'

Shallow, Small, Narrow DOF

Deep, Large, Wide DOF

Focal point is sharp, background is blurred
SHALLOW DOF (small number)



Everything in focus
WIDE DOF (large number)

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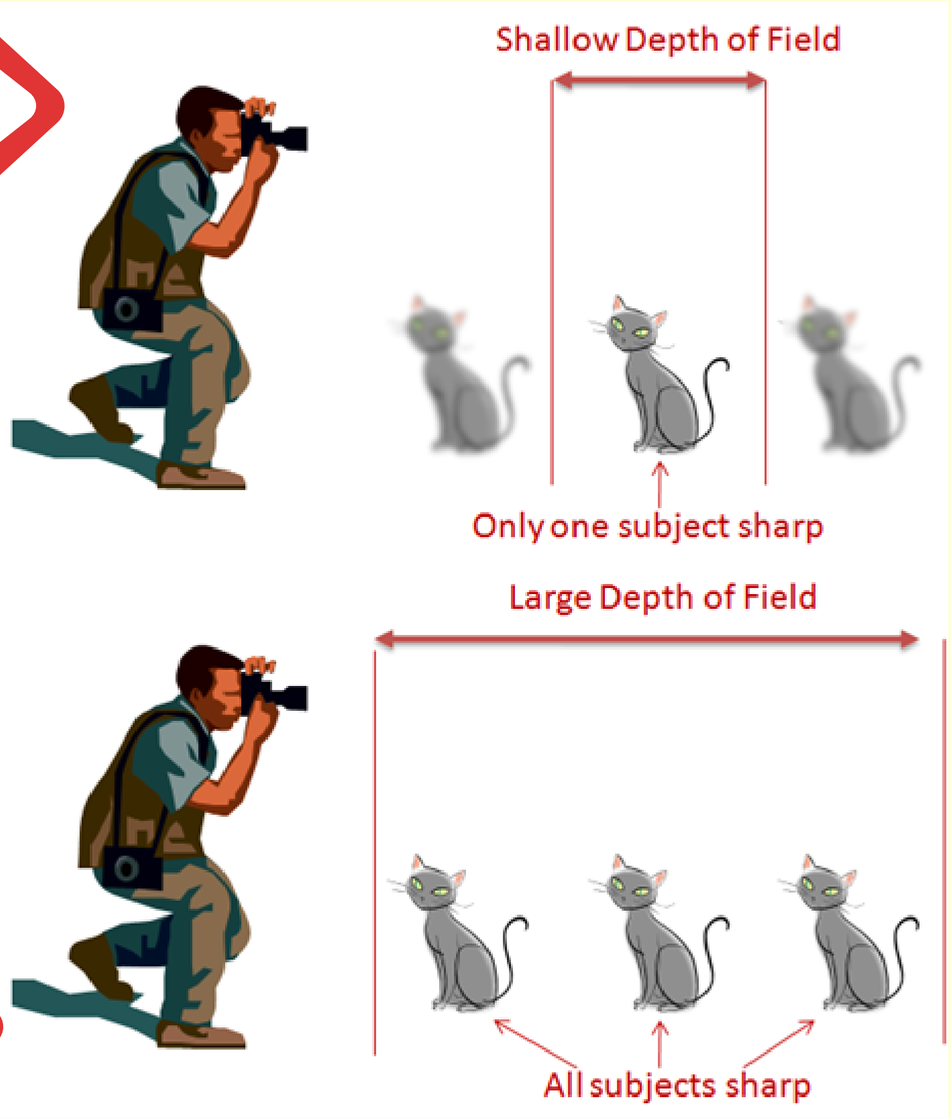


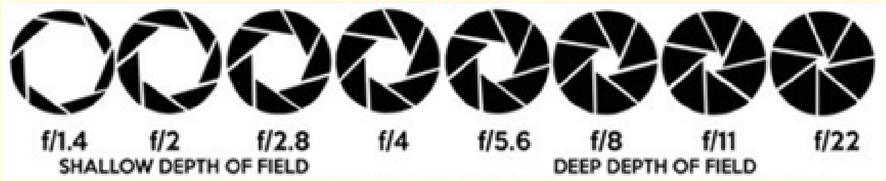
Everything in focus
WIDE DOF (large number)

APERTURE & DEPTH OF FIELD(DOF)

Subject in focus(flowers)
Blurred background

Everything in focus

APERTURE & DEPTH OF FIELD(DOF)



- Are these wide, medium or narrow DOF?
- What do you think the aperture settings are?

TASK

- Practise using different aperture settings

- Create a series of photographs that show narrow and wide depth of field.
- You are aiming for one thing in focus with a blurry background and everything in focus. Objects in a line, people, faces, flowers.
- Add notes about the exposure triangle
- Make a note of the aperture range on your camera.

- Upload your photoshoot to folder 'DOF photo shoot'
- PPT is easier for presenting final images
- Images should be jpeg or png format
- Add to onenote

HINT:
Try adjusting your distance to the subject when you stop up and down

GOING FOR GOLD

- An independent creative approach that shows application of camera settings and composition.
- Added detailed notes to explain why you might change the aperture settings when taking different photos.
- watch a youtube clip about DOF.

HAVE A GO AT CANONS CAMERA SIMULATOR