

ASSIGNMENT

Our classroom cameras each have THREE lenses. A telephoto lens, a macro lens, and a kit lens (18-55mm). Your assignment is to experience shooting different scenes with the telephoto and the kit lenses. In order to accurately compare the two lenses, stand in the SAME SPOT only changing your lens out.

Telephoto Lens:

a lens with a longer focal length than standard, giving a narrow field of view and a magnified image.

- Bring Far Subjects Close. ...
- Fill The Frame. ...
- Pick Distant Subjects Out. ...
- Capture Shots Of Wildlife. ...
- Photograph The Moon. ...
- Portraits. ...
- Shallow Depth Of Field. ...
- Capture Action.

Landscape:

Use your telephoto lens to take a "landscape" type photo (does not have to be outside).
Use your kit lens to take a "landscape" type photo.

Portrait:

Use your telephoto lens to take a portrait of a classmate
Use your kit lens to take a portrait of a classmate.

Create a contact sheet comparing the photos between your telephoto and kit lens.
Using the type tool, label which side is telephoto and which is portrait. Indicate which lens worked best for which type of photo.



Wide-angle to telephoto

Understand the difference between focal lengths, from 10mm to 400mm

Your lens focal length affects the angle of view you can see through your camera's viewfinder. To really see the difference focal length can make to the angle of view, it's good to compare a sequence of shots of the same subject taken at different focal lengths. See our examples for how much or how little of the scene you can capture in your frame, depending on your effective focal length (EFL).



125mm (EFL: 200mm)



35mm (EFL: 55mm)



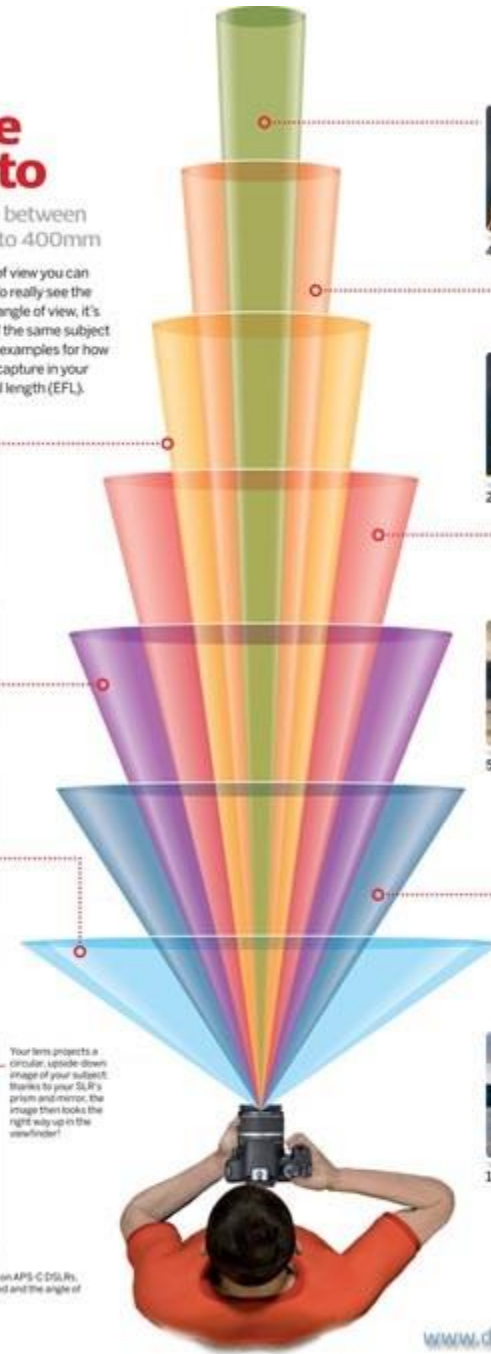
11mm (EFL: 18mm)

Effective Focal Length (EFL)



The view on a full frame camera (sensor size: 36x24mm, same size as 35mm film)

The cropped view on APS-C DSLRs, the EFL is increased and the angle of view decreased.



400mm (EFL: 640mm)



200mm (EFL: 320mm)



55mm (EFL: 90mm)



18mm (EFL: 28mm)

Photo: iStockphoto.com, Shutterstock.com, iStockphoto.com