

Please answer these questions on your own paper. Attach this sheet to the front of your paper.

1. Define the following terms:

light
harsh light
soft light
wavelength
visible spectrum
electromagnetic spectrum
aperture
shutter
depth-of-field
ASA
parallax error
f-stops
BDE
view camera
rangefinder camera
single lens reflex camera
twin lens reflex camera

2. What are the shutter speeds that we find on most cameras?
3. Which of these shutter speeds let in the least amount of light?
Which one lets in the most light?
4. Which of these shutter speeds stops motion the best?
Which one blurs motion the most?
5. What apertures do we find on most cameras?
6. Which of these apertures lets in the most light?
Which one lets in the least light?
7. Which of these apertures gives us the greatest depth of field?
Which one gives us the least depth of field?
8. What is one advantage and disadvantage of each of the four types of cameras?
9. How do we use BDE to calculate our exposure when taking pictures?
10. How should we change our exposure from BDE if we take pictures in the shade?
11. What are the six physical characteristics of light?
12. Which direction of light creates a silhouette?
13. Which direction of light shows texture and depth?
14. Which direction of light is the most natural looking?
15. What is one characteristic of harsh light?
What would be a source of harsh light?
16. What is one characteristic of soft light?
What would be a source of soft light?
17. Which cameras suffer from parallax error?
18. Which cameras have WYSIWYG?
19. How does the light sensitivity of the film change as we use different ASA films?
20. Which film would be more sensitive to light? ASA 100 or ASA 400?
21. If we are processing two rolls of film in a tank, how much developer and how much water do we need to mix together?
22. What temperature do we have to have our developer at to process for 9 minutes and 15 seconds in D-76?
23. How do we calculate the amount of time we need to have our film in the fixer?

24. What are the eight parts that we find on most cameras?
25. If we change our shutter speed from $1/500$ to $1/125$, how much more/less light have we let into the camera? Be exact.
- If we change our aperture from $f/8$ to $f/4$, how much more/less light have we let into the camera? Be exact.
- If my first exposure was $1/500 @ f/4$, what would my aperture be if I changed my shutter speed to $1/125$ of a second?