

Shedding Light on Refraction Worksheet

Name: _____

Part A: Refraction

1. What is refraction?

2. Sketch the path you would expect the light ray to follow on entering and exiting the glass block. Draw in the two normal lines where the light ray strikes each surface.



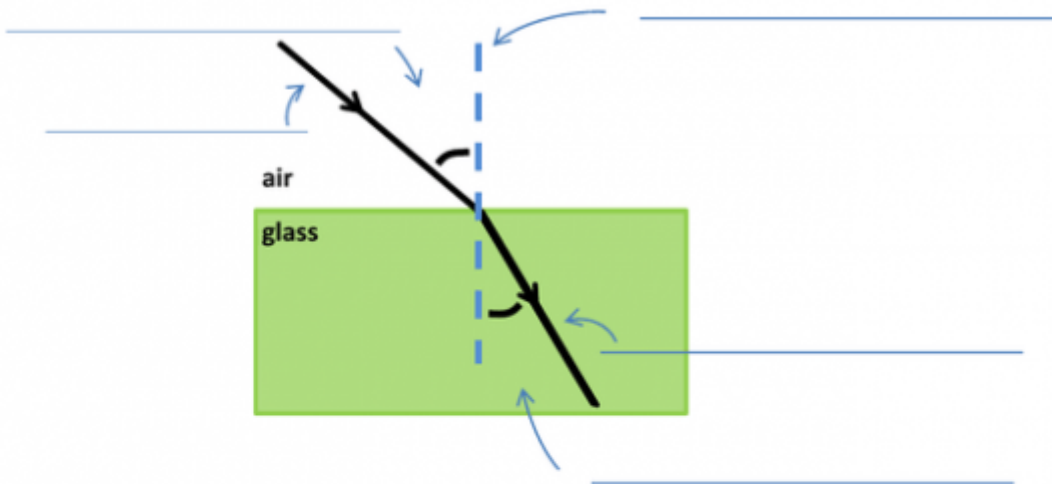
3. What is the (approximate) speed of light...

- (a) in a vacuum? _____
- (b) in air? _____
- (c) in water? _____
- (d) in glass? _____

4. Why does refraction occur?

Diagram

5. Label the following diagram.



6. The refracted light ray depicted in Q5 is turning towards/away from the normal. (circle the correct answer)

7. Write what the mnemonic FAST stands for.

- F
- A
- S
- T