



Rosary School – Marj Elhamam

Name: _____
Grade: 7 (A,B,C,D,E)

Date: ____ / ____ / 2025

Subject : Physics

Worksheet 3

Question 1:

Allie and Jamil are watching a film in the cinema. A spaceship is being chased, and explodes in a ball of fire. Allie puts her fingers in her ears because the sound is so loud. Jamil drops his sweets. He needs to use the torch on his phone to find them because it is very dark under the seats.



a. Which of these things are light sources. Tick (✓) two boxes.

Torch Cinema Screen Projector

b. If you were really in space, you could see an explosion, but you could not hear it. Why is this?

Light travels faster than sound.
 Sound travels faster than light.
 Sound cannot travel through empty space.

c. Complete these sentences using words from the box. You do not need to use all the words.

absorbs transmits reflects opaque shadow transparent

The cinema screen is made from a material that _____ light well.
It is dark under the seats because they are _____ (light cannot go through them) so they form a _____.

d. Outside the cinema they see two cars crashing in the distance. They don't hear the sound straight away. Explain why does this happen?

Question 2:

a. Materials can be opaque, translucent or transparent. What does **opaque** mean?

b. Explain how a **translucent** material is different from a **transparent** material.

Question 3: Choose the correct answer.

1. Which of these statements is true?

- A Light travels in straight lines
- B Light is stopped when it meets a solid object.
- C Light does not travel in straight lines.
- D Light will only travel for about 2000 km before it stops.

2. Which of these statements is **not** true?

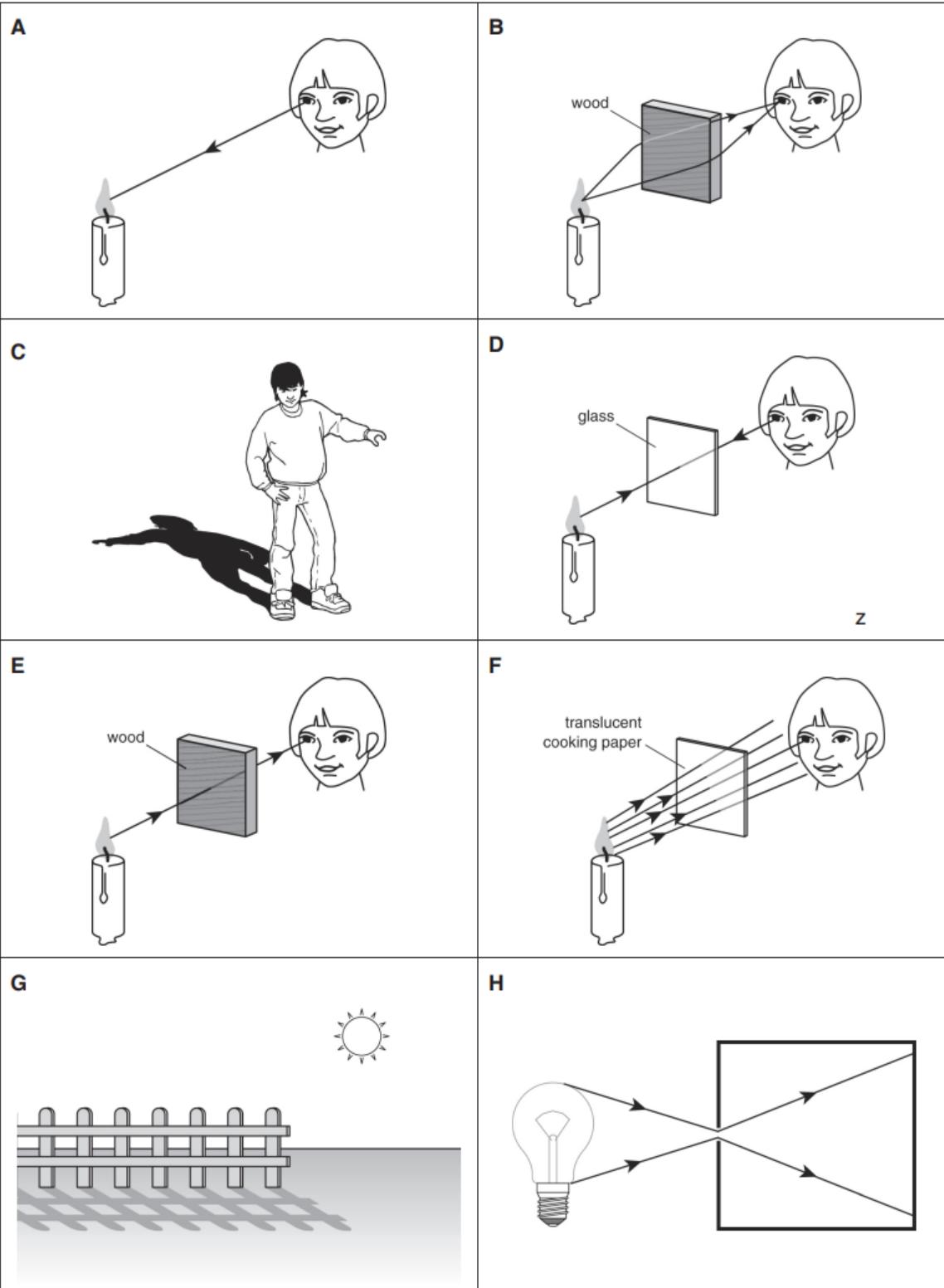
- A Opaque objects reflect or absorb light.
- B Transparent objects let light pass through them.
- C Translucent objects scatter the light that passes through them.
- D Translucent objects do not reflect light.

Question 4: A woman is reading a book. Draw a light ray on the drawing to show how she sees the book. Draw **arrows** on your light ray to show the direction the light is travelling.



Question 4:

There is something wrong with each of these diagrams. Find the mistakes and write them down with explanation.



A. _____

B. _____

C. _____

D. _____

E. _____

F. _____

G. _____

H. _____
