

# ARBOR INTERNATIONAL SCHOOL

## E-Learning module/file



GRADE: VI

MONTH/WEEK/DATE: April / **Week-1/** **Date- 4--4- '22 to 8-4-'22**

SUBJECT: PHYSICS  
AND MS.NISHI GUPTA\_

NAME OF THE TEACHER: MS. AGNEL NEELAM

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### **Notes for the parents:**

- Dear parents, we hope that this learning module for the week serves its purpose with regards to student's understanding and learning.
- The learning content for the week is attached day wise in this module to facilitate learning for your ward.
- For better clarity, kindly zoom the content.
- You can enlarge the content by clicking on the right bottom corner of the screen where the zoom option is given.
- Please refer to the page numbers of the text book mentioned in the module for the learning content which is mentioned in the day wise planning. E-content is attached in the module as well.
- Important notes for the chapter are attached with the learning module and the student must go through those for revision of the concepts.
- By the end of the chapter, the students should be able to understand the following:

#### **1. *Ray, beam and Propagation of light***

Thank you

MS. AGNEL NEELAM

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Kindly refer page no- 206- 211 - Ls. Light, Shadows & Reflection

<u>DAYS</u>	<u>TOPIC</u>
<u>DAY - 1</u>	<u>Lesson 13: Light, Reflection &amp; Shadows</u>  Beam of light, Light travels in straight lines
<u>DAY-2</u>	<u>Lesson 13: Light, Reflection &amp; Shadows</u>  Light travels in straight lines-Activity

### CONTENT - Day 1

- **Objectives:** To familiarize students with the theory of light travelling in straight lines.
- Children draw ray, beam and spreading rays.
- Teacher will demonstrate the experiment showing light travels in straight lines.

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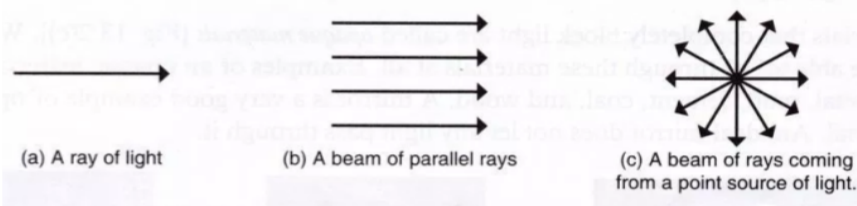
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### Ls. 13. Light, Reflection & Shadow

**How does light travel?**

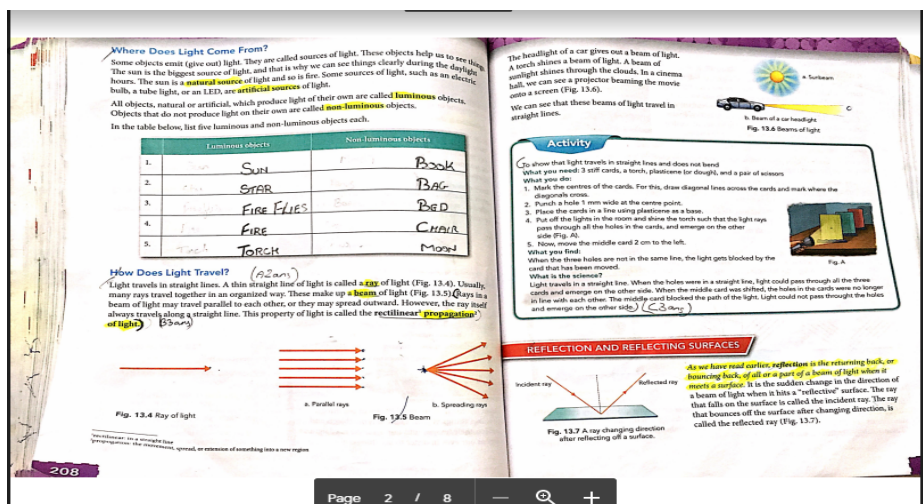
Light travels in straight lines.



A thin straight line of light is called a **ray** of light.

Many rays together in an organized way make up a **beam** of light.

Ray always travels along a straight line. This property of light is called the **rectilinear propagation** of light.



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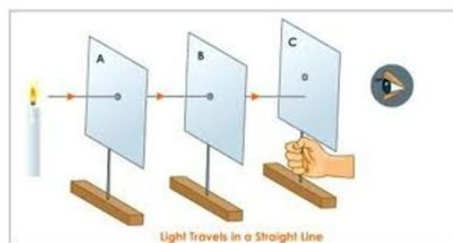
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## LIGHT TRAVELS IN A STRAIGHT LINE

- ▶ In a homogenous transparent medium light travels in a straight line and this is known as rectilinear propagation of light. This can be demonstrated by the following experiment:



- ▶ Now slightly displace any one of the cardboards and try to see the flame through the pinhole of the cardboard C. The flame will not be visible. From this it is clear that light travels in a straight line.



[Please follow the link:](#)

- ▶ Beam of light, Properties of light, reflection & lateral inversion ↓

<https://www.youtube.com/watch?v=ruFyaM9BsLM>

<https://www.youtube.com/watch?v=5w2rYSHqAm0>

### CONTENT- DAY - 2

Teacher will demonstrate the experiment : Light travels in straight lines.

## Activity :

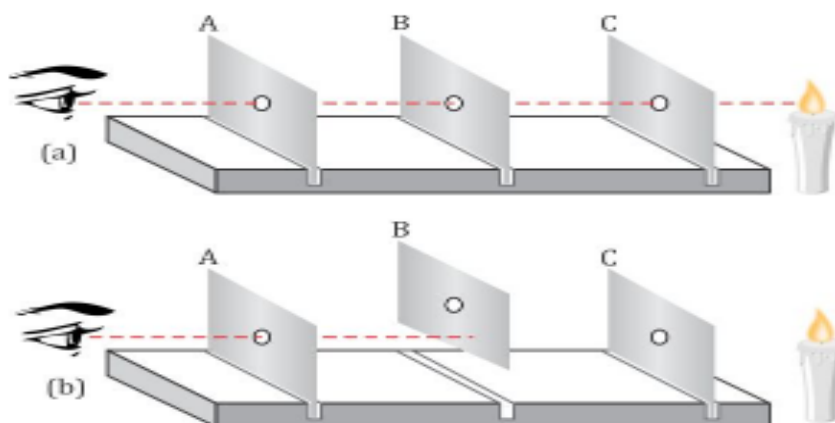
- Light travels in straight lines

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### **Materials required:**

CD's-3 or round card board pieces

Candle or Torch

### **ONLINE QUIZ:**

<https://quizizz.com/join/game/U2FsdGVkX19Aif18NVNeDb%252FXwX0TQNJidVBZsK3LmEP%252BwQdoJ9WLHibJCLCF%252FaNXpL%252FRcXSvIx9fnp%252BrLh%252FnoQ%253D%253D?gameType=live>

<https://quizizz.com/join/game/U2FsdGVkX19AQTxnFpwzyFzslKF3l%252BWX1n0GgAIR10TsH3CjpiE8W1b1P5HMM2KEUv%252F7gLjHNF1Wpqng39z4Q%253D%253D?gameType=live>

<https://quizizz.com/join/game/U2FsdGVkX19p3g4BoPqMR60VqyC3%252FmrP9Q9rKqgsjehRyqbxoPLZUM%252Fq6hl4wYPfP2ChnId2JhVJm00zlXrf2g%253D%253D?gameType=live>

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## NOTES

### Ls. 13. Light, Reflection & Shadow

**Aim : To learn about sources of light, propagation of light, laws of reflection, formation of shadows and eclipses.**

#### Question & Answers

1. How does light travel and what is the phenomenon called?

Light travels in a straight line and is called rectilinear propagation.

End of module

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