

ARBOR INTERNATIONAL SCHOOL

E-Learning module/file



GRADE: VI

MONTH/WEEK/DATE: April / **Week-3/** **Date- 18--4- '22 to 23-4-'22**

SUBJECT: PHYSICS
AND MS. NISHI GUPTA_

NAME OF THE TEACHER: MS. AGNEL NEELAM

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. Laws of reflection and regular and irregular surfaces

Thank you

MS. AGNEL NEELAM

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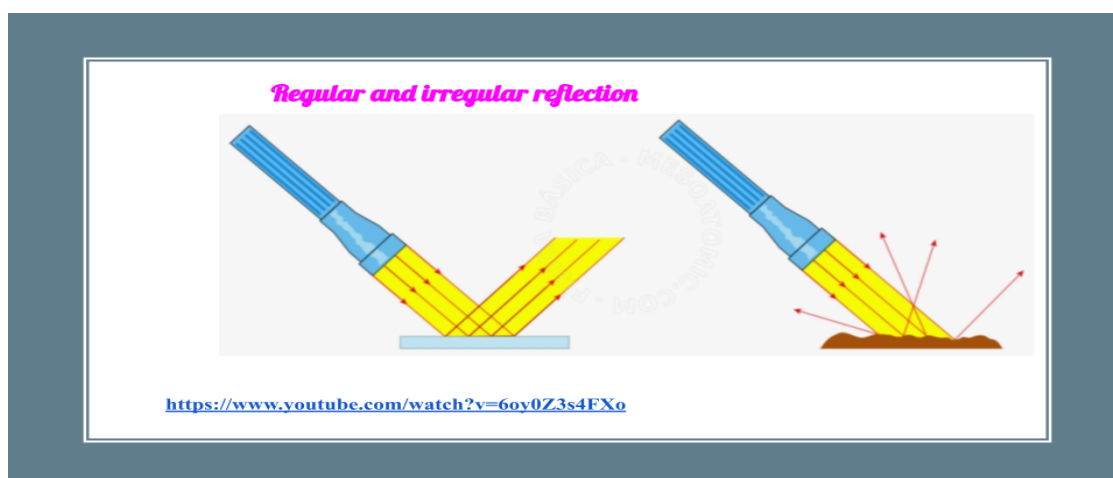
NAME OF THE TEACHER: MS. AGNEL NEELAM

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 & Shadows</u> <u>➤ Regular and irregular reflection</u>
<u>DAY - 1</u>	<u>Lesson 13: Light, Reflection & Shadows</u> <u>➤ Characteristics of plane mirrors</u>

CONTENT - Day 1

- **Objectives:** To familiarize children with the reflecting surfaces

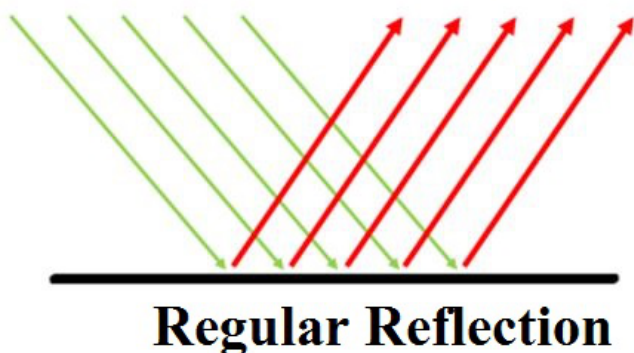
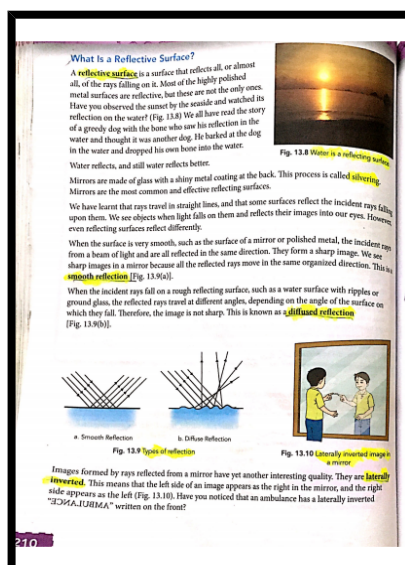


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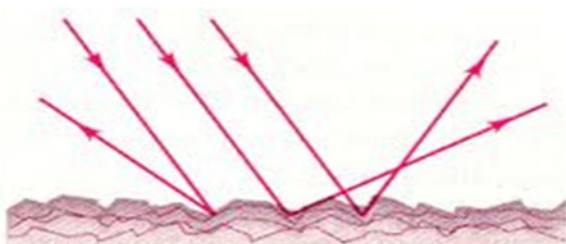
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Irregular reflection

- It occurs when a beam of light falls on a rough surface.
- Incident rays are parallel but reflected rays are not parallel.



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[Please follow the link:](#)

Regular and irregular reflection ↓

<https://www.youtube.com/watch?v=6oy0Z3s4FXo>

CONTENT - Day 2

- **Objectives** -To familiarize children with the uses and characteristics of a plane mirror.

The infographic is titled "USES OF PLANE MIRRORS" and features a large mirror on a stand. Below the title, it lists the uses of plane mirrors in daily life. A link to a YouTube video is provided at the bottom left of the infographic.

Uses of Plane Mirrors in daily life

A plane mirror is used:

- as a looking glass to view ourselves
- by interior designers to create an illusion of depth
- to fold light as in a periscope and other optical instruments
- to make kaleidoscope, an interesting toy

➤ Uses of Plane mirrors
<https://www.youtube.com/watch?v=qe1o7I1eGKc>

Characteristics in Plane Mirrors

- Distance from object to mirror equals distance from image to mirror
- Upright
- Left-Right reversal
- Virtual image

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Please follow the link:

➤ **Laws on Reflection**

<https://www.youtube.com/watch?v=F42ARYb8b88>

➤ **Plane mirrors**

<https://www.youtube.com/watch?v=Poq3u7BFhqk>

Characteristics of a plane mirror

<https://www.youtube.com/watch?v=hcC7OEEb7TM>

➤ **Uses of Plane mirrors**

<https://www.youtube.com/watch?v=qeIo7I1eGKc>

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. Define reflection. Give the laws of reflection with the help of a diagram.

- A. The bouncing or returning back of all or a part of light when it meets a surface is called reflection of light.

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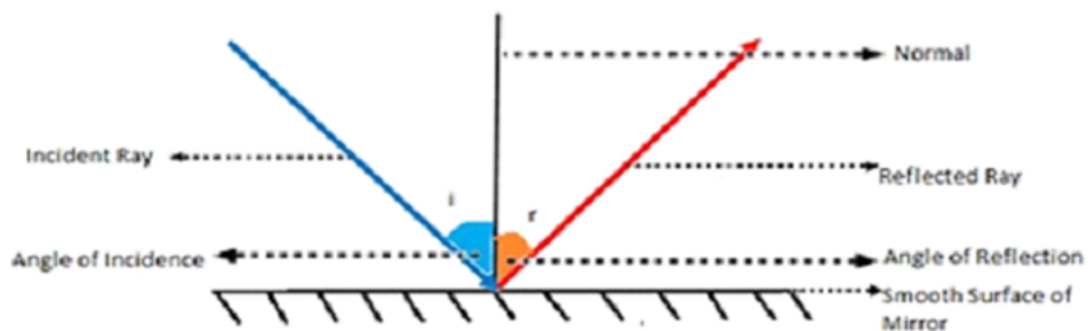
Laws of Reflection

Law 1 : The incident ray (i), the normal at the point of incidence and the reflected ray (r) all lie in the same plane.

Law 2 : Angle of incidence is equal to the angle of reflection

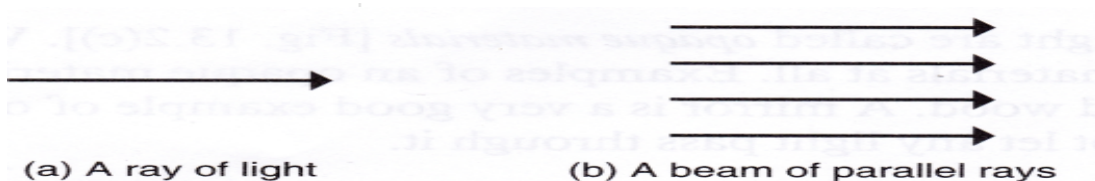
$$\angle i = \angle r$$

Laws of Reflection



2. Draw the full:

- Ray
- Beam of rays parallel to each.



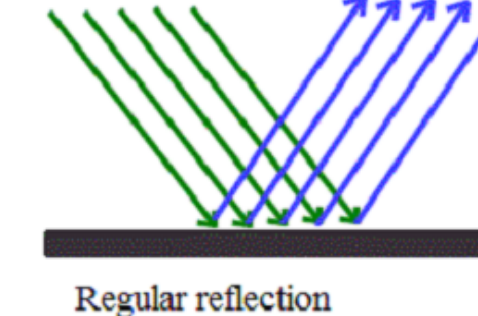
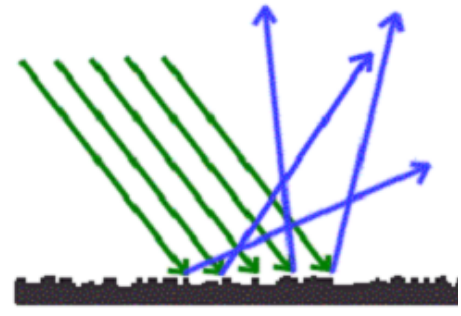
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6Q. Differentiate between regular and irregular surface with examples. Draw the respective diagram

S.N	REGULAR REFLECTION	IRREGULAR REFLECTION
1.	It occurs when parallel beam of incident rays remain parallel after reflection.	It occurs when parallel beam of incident light doesn't remain parallel after reflection.
2.	The reflected rays are reflected in one direction	The reflected rays are not reflected in one direction
3	Image formation takes place.	Image formation doesn't take place.
4.	Occurs from smooth surfaces like mirror, silver spoon etc.	Occurs from rough surfaces like wood, table, door, book etc.
5.	 <p>Regular reflection</p>	 <p>Irregular reflection</p>

End of module
