

The Primary Stage of Grades (4-5)
School Year 2022- 2023

Name: _____

Subject: Science

Unit 8: Movement of light

Worksheet 3: Refraction

Class: Grade 5 CP (All sections)

Date: / /

Objective/s:

- Classify objects into transparent, translucent or opaque materials.
- Know that light changes its direction and speed when moving through different media.

Question1:

Materials that allow all light to pass through are called transparent.
 Materials that allow some light to pass through are called translucent
 and items that don't allow any light to pass through are called opaque.

Classify the following objects into transparent, translucent or opaque materials (tick ✓ the correct column):

Object	Transparent	Translucent	Opaque
Glass			
Cardboard			
Water			
Book			
Wall			
Wood			
Oil			
Dimond			
Sunglasses			
Metal			
Air			
Frosted glass			

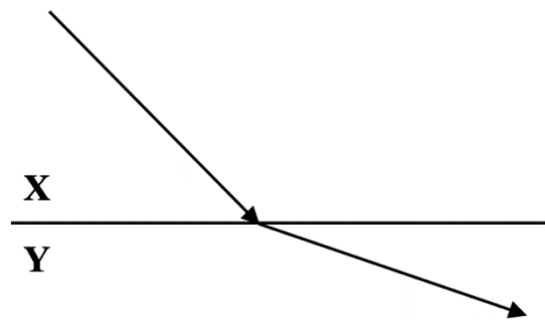
Question two:

a) Fill in the blanks:

1. A ray of light travels from one medium to a different medium. The ray of light will change in _____.
2. The bending of light when it travels from one medium to another is called _____.

b) Choose the correct answer by ticking the correct box:

1. The diagram shows a ray of light passing from medium **X** to medium **Y**.



Tick (✓) the box next to the correct statement.

- X** and **Y** are different types of materials.
- X** is an opaque material.
- Y** is an opaque material.

2. A spoon inside a glass of water looks bent. Why?

Tick (✓) the correct answer.

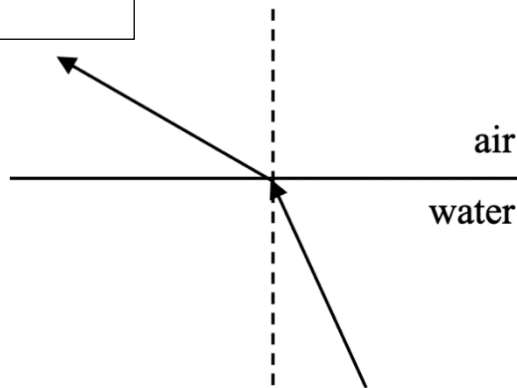
- The ray of light bends as it passes from the water, through the air, into our eyes.
- The ray of light reflects off the surface of the water into our eyes.

Question 3:

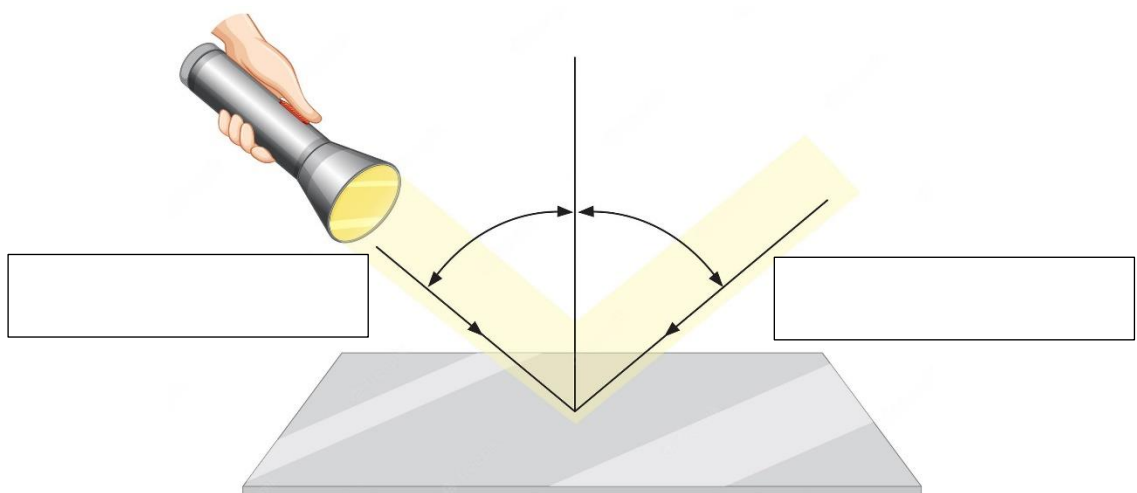
a) The diagrams show two rays of light that travels from the air into a different surface.

Write the following terms next to correct diagram:

Reflection of light	Refraction of light	Reflected ray
Incident ray	Refracted ray	



A:



B:
