M3/1 - ST23201
Unit 3: Light (Reflection, Refraction, Dispersion and Light Phenomena)
Prepared by: Teacher Niño

Name: _____ Student No. _____ Date: _____

Direction: Read the instructions carefully and do your best to answer the following questions.

WORD BANK

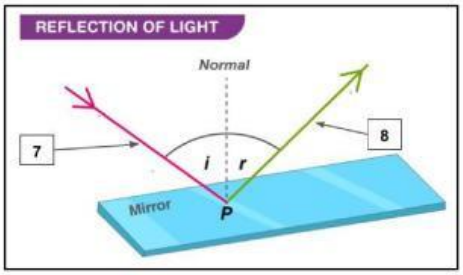
Reflected Ray	Incidence Ray	Plane Mirror	Prism	Regular Reflection
Diffused Reflection	Multiple Reflection	Refraction of Light	Dispersion	Reflection
Optics	Transparent Object	Opaque Object	Glossiness	Surface Scatterance
Translucent Object	ROYGBIV	Soap Bubbles	Petroleum on water	Rainbow

1. _____ is defined as the change in direction of light at an interface in-between two different media so that the wave-front returns into a medium from which it originated.
2. A _____ allows light to transmit or pass through.
3. An _____ does not allow light to transmit through and instead reflects or absorbs the light it receives.
4. Most objects do not reflect or transmit light specularly and to some degree scatters the incoming light, which is called _____
5. _____ is caused by the surface roughness of the reflecting surfaces, and **internal scatterance** การกระจายภายใน is caused by the difference of refractive index between the particles and medium inside the object.
6. Like transparent objects, _____ allow light to transmit through, but translucent objects also scatter a certain wavelength of light via internal scatterance.

Identify the following

7.

8.



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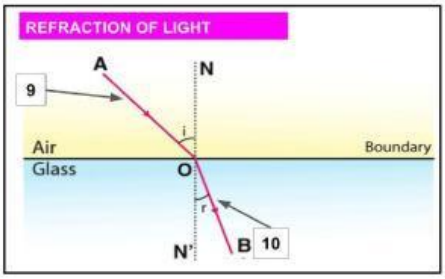

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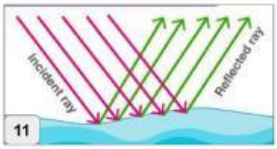

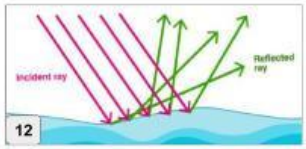

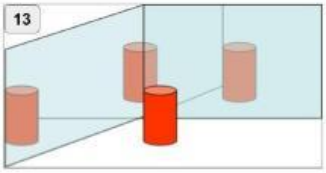

11-13: Identify the following Types of Reflection of Light ระบุประเภทการสะท้อนแสงต่อไปนี้

11.

12.

13.

15. _____ can be defined as the natural phenomenon that helps a ray of white light get split into seven colors that are contained by it.

16. This spectrum of light is generally abbreviated as _____.

17. A _____ is a piece of laboratory equipment made up of glass or silicon that is generally used to display the existence of dispersion phenomenon in real life.

18. _____ are formed when the rays of sunlight pass through the tiny water droplets or vapors present in the environment during or after rain.

19-20: _____ and _____ are examples of dispersion of light in our daily life.