SCIENCE 8 - REFLECTION & REFRACTION WORKSHEET

NAME:

Vocabulary					
Incidence	Opaque	Reflected ray	Refraction		
Material	Plane mirror	Reflection	Transparent		
Normal	Ray model of light	Refracted ray	Translucent		

Use the terms in the vocabulary box to fill in the blanks for the following eight questions. You will not need to use every term.

1)	In the	, light is described as a ray that	
20- 36 1	travels in a straight path.	Activity of the plant and a state acceptance and the control of th	
2)	When light strikes	materials, it passes through them.	
3) When light strikes is scattered from its straight path.		materials, it passes through them but	
4)	я	materials do not allow light to pass through them.	
5)	The angle of reflection is equal to the angle of_		
6)	Light rays bounce off a	with a regular reflecting pattern.	
7) The angle of the boundary between two materials.		is the angle of a light ray that comes out of	
8)	The angle of refraction is measured between the the normal.	and	

9) Match each Term on the left with the best Descriptor on the right. Each Descriptor may be used only once

Term		Descriptor		
Normal	A.	Equal to the angle of reflection		
Angle of refraction	В.	Measured between the refracted ray and the normal		
Angle of reflection	C.	Angle of reflected ray		
Angle of incidence	D.	Imaginary line that passes through materials at right angle		



10) For each diagram, draw the normal at the point of contact. Measure the incident angle and the angle of refraction. Then complete the sentences using *greater*, *less*, *toward*, or *away from*.

(a) Air to glass

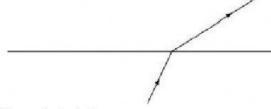


Incident angle = ______
Angle of refraction = _____

The angle in air is_____than the angle in the glass.

The light entering the glass bends ______ the normal.

(b) Water to air



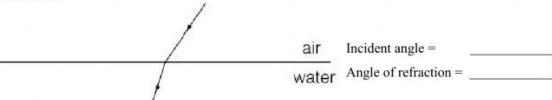
Incident angle = ______

Angle of refraction = _____

The angle in air is ______ than the angle in the water.

The light entering the air bends the normal.

(c) Air to water



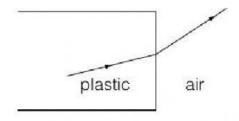
air

water

The angle in air is ______than the angle in the water.

The light entering the water bends______the normal.

(d) Transparent plastic to air



Incident angle = _____ Angle of refraction =

The angle in air is ______than the angle in the plastic.

The light entering the air bends ______the normal.

