8 th Grade Science	
Redlands Middle School	

Name			
Date	Period	Score	/4

Bending Light Lab Skill Builder

1. W	nat evidence did you collect that light waves can be bent.
2. Ex	plain how/why refraction occurs?
3. W	nat is the index of refraction?
4. Cc	mpare the index of refraction between water and air.
5. Sp	ecifically, what happens to the speed of light as it encounters water?
6. W	nat does the Law of Reflection state?

7. In the space below, draw and label the procedure you chose to verify the Law of Reflection. Clearly identify the

normal, angle of incidence (i) and the angle of reflection (r) angle of incidence.

7. Th	is figui A. B. C. D.	Refraction Retrofitted
8. The		tion of the lines change because:
	Ε.	Light travels at different speeds through different materials
	F.	The straw is bending under weight of the water
		The glass is deceiving your eyes Mr. Emmons is trying to mess with your mind Figure 1
	11.	Wit. Elithons is trying to mess with your filmu
9.		windows in the world are
	Α.	Translucent
	В.	Opaque
		Transparent
	D.	Transcendent
10.	The c	color we actually see is the one that has been
	A.	Refracted
	В.	Reflected
	C.	Absorbed
	D.	Retrofitted
11.		is caused when light waves travel through materials of different densities
11.	——— A.	is caused when light waves travel through materials of different densities Refraction
	В.	Reflection
	C.	Redistribution
	_	Reversal
12.		entimeter thick piece of plywood will be
	Α.	Translucent
		Transparent
		Opaque
	D.	Opulent
13.	Frost	ed glass is an example of a material.
		Translucent
	В.	Transparent
	C.	Opaque
	D.	Opulent
4.4	El	
14.		Transverse wayes
	А.	Transverse waves
		Compression waves A combination of compression and transverse waves
	C.	A combination of compression and dansverse waves
15.	Whic	h of the following is not an electromagnetic wave?
	A.	Radio
	В.	Visible Light
	_	Ultra violet

D. Tsunami