Name	Hour
Light and Mirror Station Activity and	
Station 1: Colorblindness (or color deficient)	What are the hidden numbers?
8% of guys and 0.5% of girls are colorblind in	
Why do you think it is more common for guys genetics and sex-linked traits: (Not on test, b	s then girls to be color blind? Think back to biology with out interesting to know!)
Review of LIGHT:	
Calculate the frequency of green lig	ght if it has a λ of 550 nm. (1 nm = 10 ⁻⁹ m)

2. Red light has a λ of 650 nm while purple is 450 nm. Which one has a greater frequency? What does it mean to have a greater frequency?

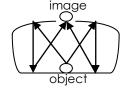
3. How many meters does light travel in a year? MILES?

m = _____ miles= _____

Review of MIRRORS:

Station 2: Mirage Hologram

Look at the object in the black disc and try to touch it. Can you? Why not?



- 1. Which type of image can be projected? real / virtual
- 2. Is the **projected** Mirage Hologram image a real or virtual image? real / virtual
- 3. What type of mirror is inside the disc? Concave / Convex
- 4. Why can it **not be a convex mirror** inside the disc?

me	Hour	_
ght	and Mirror Station Activity and Review	
	Review: Know what the variables stand for! A 1.5 cm tall light bulb is placed a distance of 2.0 cm from a CONVEX mirror with a focal I 2.5 cm. Determine the image distance and size using EQUATIONS. (q= -1.1 cm, hi= 0.83 cm.)	
		q=
		hi=
2.	A 2.5 cm tall plastic pig is placed a distance of 5.0 cm from a CONCAVE mirror with a foc of 2.5 cm. Determine the image distance and size using EQUATIONS . (q=5 cm, hi= -2.5 cm	
		q=
		hi=
3.	A 1.2 cm tall plastic pig is placed a distance of 4 cm from a mirror which has a focal leng cm. Determine the image distance and height using a scaled ray diagram for BOTH type	
	mirrors. CONVEX (q= -1.1 cm, hi= 0.33 cm) CONCAVE (q= 2.4 cm, hi= -0.72 cm)	q=
		hi=
4.	Other MIRROR stuff to know: a. An object is 1.2 cm tall. If the hi is -4 cm, what is the magnification?	
	b. Does a negative magnification mean an object is upright or inverted?	
	c. If an object's magnification is 0.4, what does this mean?	
	d. If the f= -2.5 cm, what type of mirror is it?	
	e. If the hi is smaller and upright , what type of mirror is it?	
	f. If the hi is inverted , what type of mirror is it?	
	g. If the image is real , what type of mirror is it?	

q=

hi=