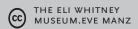
Refracted: _

LIGHT, LENS, IMAGE: THE CAMERA OBSCURA



Name	Date
	Camera Obscura and Projector
You used different parts to make a ca Lens Back Screen	mera obscura and then turn it into a projector, including: LED LED stand Picture
. Camera Obscura	
	A camera obscura lets you see the image of an object in front of you on a screen at the back of the camera. We have drawn a person in front of your camera obscura. 1. Draw and label the parts that make the camera obscura work. 2. Draw the image that you see.
2. Projector	
	A projector lets you project a picture from inside the camera onto a screen or surface in front of the camera. We have drawn a screen in front of your projector. 1. Draw and label the parts that make the projector work. 2. Draw the image that you see.
The camera obscura or projector worl absorbed (trapped), or <u>refracted</u> (bent).	ked because you were able to control where light was <u>reflected</u> (bounced back),
	era obscura or projector) of where light is:

markers that will draw on any material. For each idea, tell whether you timage by drawing his picture in this way. Tell why you think so.	mink ne could project a cicar	er or brighter
• If he drew on a piece of clear plastic (like plastic wrap) with orange and	d yellow markers:	
If he drew on a piece of aluminum foil with orange and yellow marker	rs:	
If he drew on a piece of thick blue paper with black markers:		
	Ma	TW
	Ų	
5 . How would you improve your projector? Think of one idea and tell whe clearer, brighter image.	ny you think it would help yo	u project a
		Y

What's next? (A challenge....)

• Conduct an investigation to test Eli's ideas. Choose three or more materials that you would like to test. Design a procedure that will help you test whether using a different material can improve your projection. Conduct your investigation and report your findings.

Student worksheet p.2