4.3	4.3 REFLECTION		
Na	Name	Date	Period
	Your challenge : Using a remote control, turn on a TV when yo	u are not in a di	rect line with it.
1.	Rules: 1. You have only ONE SHOT to successfully 2. You must use all the mirrors provided to yo		- no practice shots!
_	Questions: 1. Before trying to use the remote, draw a dia are, where you need to place the mirrors so any barriers (such as walls, lab benches, or light beam follows from the remote contro	the remote con r doors) are loca	trol can turn on the TV, and where
	Drawings will vary, but should show the m beam at each mirror reflects off at the sam incidence should equal the angle of reflect	ne angle as it app	•
2.	2. With the mirrors arranged as in the drawin you able to turn on the TV the first time? I TV?		
	Answers will vary, but may include that the path the infrared light beam had to travel faint to turn on the TV by the time it got to	was too far and	
3.	3. How did you know when you had the mirr	ors set up the rig	ght way before you tried it?
	Make sure you could see with your eyes that all the mirrors were lined up in such a way that you could see the infrared detector on the TV when you look at the first mirror the remote control's light will hit. Then aim the remote control at that spot on the first mirror.		
4.	4. What does this experiment tell you about t	he similarities b	etween visible and infrared light?
	Both visible and infrared light reflect off of way, and must, therefore, be similar kinds part of the electromagnetic spectrum.		