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Discussion Topic

"Students should know and be able to identify cause and effect pairs involved in changes associated with a system (e.g. changing the position of a mirror alters the path and direction of light)." (Standard 2.3.a.1 in the Colorado Science Assessment Frameworks)

Before we start experimenting with lasers, for our class discussion today, respond to the following scenario.

Cody, whose uncle is a cop, said he noticed that the his uncle's protective jacket not only had a live and loud color, but the word POLICE in the jacket seemed to be visible in whatever direction he saw it from *at night*. Chatting with Diana, he said he could not believe that the reflected light could be seen in all directions. He thought light always bounced off in only one direction like a basket ball. Otherwise, how could one pass the basket ball so predictably, he said. Diana, disagreed with him and said light coming in one direction reflected in all directions and that's why the word POLICE was visible in the jacket.

1. Do you agree with Cody or Diana?
2. How could you support your idea?
3. What reasons would you give Cody or Diana, if you disagreed with them.

Make sure you include:

1. Your CLAIM
2. Your supporting EVIDENCE
3. Your justifying REASON(S) in your online posts.

Created By Nathan Balasubramanian
08/29/05 12:08AM

Messages

Thomas C.	Posted 08/29/05 09:51AM I think that diana is right because the tape on those jackets really brite and they could refelct in all dirctions-
Erin K.	Posted 08/29/05 09:52AM I agree with Diana. The word POLICE is made with a reflective cloth so you can see the cop. I would tell Cody that when light hits the word POLICE it shines in different ways because, the cloth is made of little tiny mirors that shine when hit. That is why it shines.
Ryan E.	Posted 08/29/05 09:52AM I think that Diana is right. The material writing POLICE on the jacket is probably made to reflect light coming at it in many different directions at once. I think that Cody is wrong because if it could only be reflected in one direction he wouldn't be able to see it from all directions at night.
Eric M.	Posted 08/29/05 09:53AM 1.i agree with cody because 2/3.it wouldnt reflect off ten times if u had 1 mirror
Michael P.	Posted 08/29/05 09:54AM i think diana wins..... think that Diana is right. The material writing POLICE on the jacket is probably made to reflect light coming at it in many different directions at once. I think that Cody is wrong because if it could only be reflected in one direction he wouldn't be able to see it.
Jason P.	Posted 08/29/05 09:54AM i think Diana is right because the light would probobably go in all directions instead of just one
Jasna H.	Posted 08/29/05 09:54AM I agree with Diana because a light would bounce off if there's was a mirier. some of the information that cody has might be true,but I thing that diana's is more better.
Hunter H.	Posted 08/29/05 09:54AM i think diana is right. the word "police" on the vest was probably made in a way to reflect light, and become visible in most situations. i think cody is wrong because, if the the word is only visible in one direction, it wont do the cop much good.
Harutyun P.	Posted 08/29/05 09:55AM diana is right cody sounds like he is mentaly disterbed cody compair lazers with basketball
Alahna N.	Posted 08/29/05 09:56AM i think diana is right. the stuff to make the word POLICE is made to reflect light coming at in many directions. Cody is wrong becauseif it can only relect in one direction he wouldn't be able to see it.
Jazziel R.	Posted 08/29/05 09:57AM I agree with cody because light does reflect in other directions
Christina G.	Posted 08/29/05 10:01AM diana is definetly right!
Nikolas M.	Posted 08/29/05 10:01AM I think diana is right, the jacket is probably reflecting the in maney different directions at one time. cody is worgn because if it reflects in one directions he would not see it.
Scott Peary W.	Posted 08/29/05 10:02AM I belive that Cody is right.
Anthony H.	Posted 08/29/05 10:03AM I think Diana is right because the materail to mack the letters is made so that you can see it in the light like a reflecter. A basket ball is unpreidtable then light.
Sarah H.	Posted 08/29/05 10:05AM I belive that Cody is right. The paint on the jacket has many reflectant pieces that make it apere that the light is bouncing off in all directions. If you catch light in a mirror it is the same size as the beam of light.
Bennett A.	Posted 08/29/05 10:07AM 1. I agree with Diana. 2. Because Cody can see the police sign from any where which proves that the light bounces everywhere when reflected on. 3. Cody- light has the ability to reflect everywhere if the positioning of the reflector is right.
Joseph S.	Posted 08/29/05 10:08AM I belive Diana is right.
April A.	Posted 08/29/05 10:08AM I agree with Diana because the type of material or color of the POLICE sighn could be speically made to see at all angles. I think Cody is wrong because scince a basketball is round it is hard to tell which way it will reflect on.
Adrian E.	Posted 09/28/05 09:03AM i agree with diana
Joshua Seth P.	Posted 09/28/05 09:05AM i agree with diana
Elias W.	Posted 09/28/05 09:16AM I think dianas right because the word police is made of reflecteve matiriel
Mariah G.	Posted 09/28/05 09:20AM I agree with Diana because the part that sais "police" is probably made out of a reflecter. when light is reflected it goes in a lot of different directions. I disagree with Cody because if light only bounced off in one direction than he wouldn't be able to see it an all directions of the night.
Lucas R.	Posted 10/11/05 09:18PM I think that diana is going to win a sort of debate about the jacket because it can reflect all ways
Tynan C.	Posted 10/16/05 12:09PM I Agree with Diana because the word police has tiny mirrors that reflect incoming light in every direction. I would tell Cody that if he were to shine a light on it the light would shine in every direction but up.
Bryan D.	Posted 10/30/05 06:41PM I agree with Diana because, if you shine a laser at a couple of mirrors, the laser would reflect. If you threw a basketball at a couple of mirrors, the basketball would break the mirrors. I would tell Cody that basketball's do not reflect off of mirrors, so lasers aren't the same as basketballs and don't have the same characteristics.

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