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Mathematics Engineering Science Achievement (MESA) - Period 5, Nathan Balasubramanian (Mr. Bala), Room 506

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**Discussion Topic**

Students will explain their set up, challenges, and costs incurred for their "Hit the Target" competition

Created By Nathan Balasubramanian  
10/19/05 05:59PM

**Messages**

- Bryan D.** Posted 10/19/05 06:10PM

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Bryan Doyle/Alanna Navarrete

Explanation:  
 1<sup>st</sup> mirror is at 30°  
 2<sup>nd</sup> mirror is at 29°  
 3<sup>rd</sup> mirror is at 19°

We figured we could hit the bulls eye by looking down the laser, the 1<sup>st</sup> and second mirror. We then looked down the second mirror to the 3<sup>rd</sup> mirror to see if we could see the bulls eye. We looked down the second mirror to the 1<sup>st</sup> mirror to see if we could see the laser and we could. The laser should be able to hit the bulls eye.  
 Both did work.  
 Difficulties moved mirror too much, 2" too much string  
 Overcame – no jerky motions, overlapped 2" of string  
 Cost of setup - \$105  
 What we bought - \$23  
 Materials – 3 mirrors, 1 protractor, 1 laser, 12" of string, one bulls eye and 1 binder
- Harutyun P.** Posted 10/19/05 06:12PM

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Andrews team

We set the mirrors in a square aiming at 45° angle. We set the target right next to the lazer. In a square all sides are 90° witch helped get 45° because 45° is half of 90°. Some problems we had where lineing up the mirror in right angles. We found a way to solve the problem by looking into the mirrors. Andrew Sias and I (Harut Poghosyan) did most of the work because Eli Weigle had a bloody nose.
- Cody C.** Posted 10/19/05 06:34PM

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Cody  
Cox  
Ty  
Connolly

Mirror  
 Angle 3 41°  
 Angle 2 31°  
 Angle 1 55°

What we did is we first measured out our string and taped where we were going to put the mirrors. We put our mirrors sideways so it will not matter about tilting. Now let see.
- Jason P.** Posted 10/19/05 06:36PM

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Jason  
Adrian

Our group

First we decided to make it a 90° square. Each angel is about 90° degrees. The major problem with our group was having to level the LAZER. We both worked well together. Our project was about worth about 100 dollars. We kept adjusting the mirrors until we could see the target from the first mirror. We chose a square becaus the room we had was a square.
- Lucas R.** Posted 10/19/05 06:37PM

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Lucas Robertson  
Joey Bean

What we did was we took the string first and taped it down and measured the angles then we made sure that the mirriors wernt leaning or crooked then we poit of view and we could see the target. We had problems with the beginning it didnt work well when we looked from the lasers point of view we could not see the target so we moved the mirrors around Joey and I worked together we made a good team one thing that helps is that the string you can se a straight line to target it helps a lot when you look from the lasers point of view.
- Sarah H.** Posted 10/19/05 06:40PM

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Sarah Higgins  
Jasna Hegie  
April Anderson  
Erin Keeney

Write-up

At first we wanted to have all of the mirrors at a 90° angle but we didn't have enough space so we have 2 mirrors at a 50° angle and the first mirror at a 90° angle. We made shure that it might hit the target by look in at the first mirror from the laser. Erin, April, Jasna and I all taped down the string and alined all of the mirrors. It tuck us along time to aline the mirrors because they kepted on turning and the mirrors were either tilted up or down.
- Ryan E.** Posted 03/13/06 09:40AM

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Ryan Estle  
Hunter Hess  
Tony Hastman

For our target problem we decided to make 90° angles because we used those last time and it worked pretty well. They were an easy angle to work with. We put everything in a square share because that was the only way it would really fit.

One of the biggest problems that we had was keeping the laser level because the floor wasn't all level. It kept going too high or too low in the other classes.  
 Tony was gone most of the time we were setting up, but it seemed that I was doing all the angle measurements and lining up. Hunter didn't do much, and refused to do this write-up.

1 laser - \$50  
 mirrors - \$30  
 protractor - \$10  
 feet string - \$16  
 foot tape - \$10  
 Total - \$116

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