

Hi Bill,

March 12

So this past Saturday, Arielle, Gabby V., Gabby C., Paula, Ben, some 11th graders and me ~~were~~ went to a physics olympics at UBC. I don't know why I went, I mean I don't even know physics, but Arielle wanted me to go and it looked interesting. So we took the 7 o'clock ferry then got on a school bus. We (the girls) started with the hacky sac launcher. It was supposed to launch the thing 5 ft, ours only went about

three but it was cool anyways. We watched a few before going to the book store. It's huge! I got 4 notebooks for next year. Then we went to the library, or the one closest to the store. Gabby C. Mom wrote an essay type thing, and she thought it might be in the library. It wasn't, we went to lunch. After we had this thing called Fremie quiz. After the first question, which was estimate the mental in the center, we got what we thought was right, but the other questions were hard. One was if the whole population of china jumped at ~~once~~ what would be the earth's recoil speed. We were like, what?! the others all seemed about the sun's mass. At

Some point (there were 8 questions we didn't know the answer so we put  $E=mc^2$  as the answer and a picture of a flying raccoon. Another question about a black hole, we drew a picture of a black hole sucking in house and people. This was a kid that was taking the papers, he kept laughing at our drawings and showing the guy next to him. I think we were with 12th graders. The next and last thing we did was a last thing. (Look at other side). We had to figure out what the angle of the light will be out the other side of the triangle. There is an equation for that, but being 10<sup>th</sup> graders we didn't know

it so our TA gave it to us the penalized us. It was the snail/sloth equation, and even after we got it it didn't help. But we tried. And we forgot another equation. But the objective after that was using a mirror, redirect the laser, to go through the rectangle, re-calculate it's refract use another mirror then get it to hit the back-wall. This is what I remember it being, but I don't know if that was exact then we met the boys who were doing a perpetual motion thing.

It moved for  $-99.9$  something, then we got off the bus to head back to the ferry to Samantha's head home

