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Setting: A physics lab. Participants: IS5 (ITA, glasses, female), S1 (male, not visible) 0:00 did you see the email I sent you  $\downarrow$  about the time. xxx IS5: so you have to complete your experiment before-XXX uh by 8:30, XXX XXX so please concentrate on the lab session when you're in the XXX class. if you can't? XXX complete the exam. XXX I won't give you any other-XXX I mean XXX I won't give you more time to: XXX let you finish your ° results.° Xxx I need to guarantee the fairness to other students. XXX ok? XXX XXX so today, we are going to measure the conservational momentum? XXX who has their equipment? XXX XXX you have an (air track), two gliders, (.2) ((grabs a piece of equipment)) XXX XXX you have air track, small glider, XXX and big glider, XXX and two ((incomprehensible)) and the computer, XXX so uh first you need to measure the mass, XXX you need to measure masses of gliders XXX you can use a scale here XXX to measure your-XXX to measure the masses of the-XXX fof the glider XXX after you measure masses of glider you need to measure XXX ((incomprehensible)) XXX XXX what is the ((incomprehensible)) you need to measure it is a ((incomprehensible)) on top of the (.)-XXX uh glider, XXX both of them have ((incomprehensible)) XXX on top of the glider, XXX and errors of the-XXX XXX the errors of the width is one millimeter,

of course error of the width ((incomprehensible)) error of XXX the mass is one gram so XXX you have ((incomprehensible)) them on your worksheet. XXX after you measure the values and the mass. XXX you need to-XXX you need to check if you air pressure is level, XXX do you know how to check the air pressure? XXX you did it in last experiment so I- (.) XXX I mean you are supposed to know how to check the-XXX if the air check is level or horizontal so XXX >please check if your air track is level or horizontal< XXX before XXX you tell me ((incomprehensible)). XXX uh just put a glider on the air track, XXX and relea-XXX >keep its stationary and release it.< XXX to make the things XXX the glider will stay stationary XXX if the glider stay stationary then the air track isn't XXX horizontal XXX you need to moves- ((alt: if it moves)) XXX it is not horizontal you need to adjust so screw on the XXX (wet) end of the air track to make sure that your air XXX track Xxx XXX is level. SO XXX and then, XXX now you are ready to ((incomprehensible)) XXX so you need to compare your ((incomprehensible)) to your XXX computer, XXX u:h click on experiment five, XXX ((incomprehensible)) is for ((incomprehensible)) XXX open the software now. XXX and (nest) you might need to click on ((incomprehensible)) XXX XXX for twice. because you need to connect two ((incomprehensible)) to XXX your computer XXX so you might need to click on ((incomprehensible)) twice XXX so that you can connect your ((incomprehensible)) to your XXX computer, XXX XXX is it ok with your? ((incomprehensible)) XXX ok XXX after you click on-XXX after you uh connect your computer, XXX

```
and your ((incomprehensible)) you will find that
XXX
           on the top of the left table
XXX
3:00
           see the top of the left table
XXX
XXX
           there is i light
           there is a ((incomprehensible))
XXX
           ((incomprehensible)) one and ((incomprehensible)) two
XXX
           (please click on) ((incomprehensible)) one and
XXX
           ((incomprehensible)) two
XXX
XXX
           so ((incomprehensible)) we use them to measure the data
           we need to make sure
XXX
           which is the-
XXX
           which ((incomprehensible)) correspond to which
XXX
           ((incomprehensible))
XXX
           so one- one simple math or two uh-
XXX
           to test it is that plug the ((incomprehensible)) (on your
XXX
XXX
           own)
           and see whose ((incomprehensible)) is it locked
XXX
           if it say it blocked,
XXX
           it mean that this ((incomprehensible)) correspond to that
XXX
           ((incomprehensible))
XXX
           of course another ((incomprehensible)) correspond another
XXX
           ((incomprehensible))
XXX
           so: you uh-
XXX
           when you clarify the ((incomprehensible)) and the state
XXX
           you can start to ((incomprehensible)) data
XXX
XXX
           and there are three parts you need to do today.
           the first part is the-
XXX
           the last ((incomprehensible))
XXX
           and first you need to slide the small one
XXX
           into the big one.
XXX
           ok look at your glider,
XXX
XXX
           u:h
           on the one side there's a piece of metal,
XXX
           and the other side there's a piece of (velcro)
XXX
           so this metal performs like a spring,
XXX
           an:d this (velcro) performs like uh-
XXX
XXX
           the (velcro) will make the two ((incomprehensible)) stick
           together,
XXX
           and they will move together.
XXX
           so-
XXX
           so the metal is used for the ((incomprehensible))
XXX
           and the (velcro) is used for the (indirect)
XXX
           ((incomprehensible))
XXX
```

```
so in the first part
XXX
INR
           you need to ((incomprehensible)) it and you need to small-
           slide the small one into the-
INR
           into the (.)
INR
           big one=
xxx S1:
xxx IS5:
           =big one ((Student interrupts her and finishes her
           sentence))
XXX
           so uh
XXX
           please make sure that this two-
XXX
           two pieces of metal face each other,
XXX
           like such position
XXX
XXX
           and then,
           put the small one ((incomprehensible)) the folded one
XXX
           ((incomprehensible))
XXX
XXX
           and then,
           put the second-
XXX
           put the big one upstream of the second
XXX
XXX
           ((incomprehensible))
           but
XXX
           close-
XXX
           close but upstream of the second ((incomprehensible))
XXX
           and then keep them stationary and slide the small one?
XXX
           the small one will go,
XXX
           and slide with the fbig one
XXX
           and pay attention to the directions after
XXX
XXX
           ((incomprehensible))
XXX
           you-
           you might find that in this-
XXX
           in the first part (this too) where uh-
XXX
           (.2) this two (.) will move in opposite direction.
XXX
INR
           like uh the small one uh-
INR
           the small one,
           collide with the big one,
XXX
           and these two move in opposite direction
XXX
           so
XXX
           and
XXX
           so this one will go to small one
XXX
XXX
           the small one pass ((incomprehensible)) the big one,
           and the big one will pass ((incomprehensible)) too
XXX
           and these two-
XXX
           and they will hit the end,
XXX
           of the,
XXX
           air track,
XXX
           and they will bounce back,
XXX
```

```
right?
XXX
           so please stop-
XXX
6:00
           please stop ((incomprehensible))
XXX
           before this one (falls back).
XXX
           because if this one falls back,
XXX
           ((incomprehensible)) again then you measurements will be
XXX
           wrong.
XXX
           so you (won't) get the (data) you want.
XXX
           so this is the first part.
XXX
           and after-
XXX
           and- and you will ((incomprehensible)) on the left table
XXX
XXX
           on your computer,
           there might uh-
XXX
           there might such a-
XXX
           table,
XXX
           as this,
XXX
XXX
           the one is it was blocked.
           zero means unblocked so-
XXX
           the data you need to write on your worksheet
XXX
           ((incomprehensible)) is the time interval.
XXX
           it might be the:
XXX
           (delta) T might be a baby T goes to my T one or T two.
XXX
           uh over T 3 or T 4 or T 5 or T 6.
XXX
           the data you need to (record) on your-
XXX
           on your worksheet,
XXX
           is the time interval.
XXX
           the time difference,
XXX
           so this is the first part,
XXX
           in the second part,
XXX
           you need to slide the big one into the small one.
XXX
           then you still need to ((incomprehensible)) a-
XXX
           I mean make sure these two pieces of metal fits eachother,
XXX
           and put the sm- big one,
XXX
XXX
           upstream of the first
           ((incomprehensible)) and the small one
Xxx
           ((incomprehensible)) of the second ((incomprehensible)).
XXX
           and slide the big one,
XXX
           and after big one hits the (.) small one,
XXX
           pay attention to direction it moves,
XXX
           it should move in the same direction.
XXX
           and-
XXX
           so this two I mean-
XXX
           so the first ((incomprehensible)) -
XXX
           I mean the sli- small slide will pass the (.) second
XXX
```

```
((incomprehensible)) first
XXX
           and
XXX
           the big one will pass the ((incomprehensible)) (.)
XXX
           successfully,
XXX
XXX
           so,
           and then the small one might hit the end of the air track
XXX
           and bounce back.
XXX
           so please stop the small one before it hit the air track
XXX
           and bounce back.
XXX
           because if it bounce back,
XXX
           and it will hit the big one again,
XXX
           so the big one will be a-
XXX
           (change the direction) and it might pass the
XXX
           ((incomprehensible)) again,
XXX
           so you will get > the wrong (data).<
XXX
XXX
           so:,
           stop the glider before it bounce back.
XXX
XXX
           this is part two.
           in part three you need to measure ((incomprehensible))
XXX
           inelastic ((incomprehensible)),
XXX
           u:m now you need to turn your (.)
XXX
           glider around,
XXX
           to make sure the back-
XXX
           the pieces of ((velcro)) face each other,
XXX
XXX
           and then put the-
           big one
XXX
           upstream of the first ((incomprehensible))
XXX
           and the small one upstream of the:-
XXX
           second ((incomprehensible)) and slide the first-
XXX
           slide the (.) big one.
XXX
           ((incomprehensible))
XXX
           uh-
XXX
           on the small one
XXX
           these two will stick together,
XXX
XXX
           and they will move together,
           and that's what we call ((perfectly)) inelastic.
XXX
           and before these two slide the ((incomprehensible)) to
XXX
           the-
Xxx
           uh the-
XXX
           end of the air track and bounce back
XXX
XXX
           you need to stop it.
           you can stop taking data,
XXX
9:00
           or you can stop the glider.
XXX
           so make sure you won't collect wrong data,
XXX
```

```
so until now you have (.)
XXX
           complete these three tables on your worksheet.
XXX
           so you need to use the computer to analysis data.
XXX
           so you can open the online system.
XXX
           and input your data,
XXX
           but remember to ((incomprehensible)) units of the (.)
XXX
           length and width in (meter) and you record unit for masses
XXX
           is uh-
XXX
           is kilograms
XXX
           so try to convert your units into meter and kilogram when
XXX
           you input your data into computer.
XXX
XXX
           you can use the unit uh-
           of grams or centimeter or millimeter,
XXX
           on your worksheet.
XXX
           bu:t remember to convert your meas-
XXX
           convert your units when you-
XXX
XXX
           data into computer,
           ok uh::-
XXX
           yea so and when you get the result,
XXX
           the computer gives to you.
XXX
           there will be a: (.2)
XXX
           you get result there will be a-
XXX
           kinetic energy,
XXX
           the momentum,
XXX
           the kinetic energy befo:re,-
XXX
           the kinetic energy befo:re the (collision),
XXX
           the kinetic energy after the (collision),
XXX
           you will use the prime
XXX
           >K prime or T prime to represent the quantities after the
XXX
           collision, <
XXX
           an:d the momentum before collision and momentum after
XXX
           collision.
XXX
           and of course,
XXX
           there-
XXX
XXX
           there (arrows).
           to represent data on your worksheet and compare,
XXX
           if your-
XXX
           if your momentum and the kinetic energy is conserved or
XXX
           not.
Xxx
XXX
           so the-
           the standard that uh if your-
XXX
           the standard that if your (.) momentum or your (.) kinetic
XXX
           energy is conserved or not is that-
XXX
           (.) uh before collision there is a-
XXX
           this is the P it's a (value) P,
XXX
```

```
and this is (arrow) bar right?
XXX
           and after collision this is the value of P prime,
XXX
           and this is (arrow) bar.
XXX
           you see these two (arrow bar),
XXX
           overlaps
XXX
           this uh is a consistent.
XXX
           this means uh your kinetic energy or your momentum I mean
XXX
           the-
XXX
           quantity you write here is conserved.
XXX
           if the (arrow bars)(.) don't overlap-
XXX
           so it's not conserved.
XXX
XXX
          or consistent,
           in this experiment it mean that this quantity is not
XXX
           conserved.
XXX
           so this is the standard um:-
XXX
           the- we-
XXX
XXX
           you need to to make sure to verify the-
XXX
           if the (.) quantity is conserved or not.
           so (during the) you have complete all of the experiment you
XXX
           need to do today.
XXX
           so do you have any question?
XXX
12:00
XXX
           alright so if you have any question I will open the air
           track and you can start the experiment.
XXX
           first measure the (lengths) of the gliders,
XXX
```