

Tell me something you observed during part one of this experiment. What was the difference between releasing the car at tape "1" vs. tape "3?" Remember to add your name to your sticky!

The pull back car got stuck under the couch at # 3 and crashed into the stairs at # 1. Kevin

My pull back car fell onto my chair multiple times.-Mia

i pulled it back and it roles under my sister bed Tati

Number 1 was really slow and did not go as far and number 3 went really fast and really far. Orlian

The impact was faster and I left it up and it still had speed. The energy was faster. It had energy as it stopped and I left it up and it had more speed. Alexander

Tape "1" Trial 1 Its speed was fast when I let go of the car and it turned around. Tape "3" Trial 2It has less Kinetic Energy than the first.- Nylah

Rose on one it turned more then on number 3 it did not make it because IT KEPEP TURNING!!!!!! and it turned under my bed and my brothers!

Nathaniel- every trial it would use a lot of energy even at tape 1

i saw a stove and it flipped when it went under it

Olivya: The first one was a "Meh". But the Third one was a "WOW!"

Leila: My observation was that my car did different movement like curves it went fast sometimes it got stuck or it went slow.

David Tap 3 had not gone faster because I use to have one but it went that fast but number 1 was FAAAAAST

what I observed was that number 1 it twirled around and went back and number 3 was going to fast that as soon as it moved it crashed in the wall.Rania

Somthing I observed that during part one of this experiment that my car was doing loops and was vary slow and kept running into my plant . MAKAYLA

Astrid - The difference is that when you pull back the car on tape 1 it went far but not as far as on tape 3.When you pull back the car on tape 3 it will go fast and farther than tape 1.

it went faster when i put it on three alot faster Erel.

Tape 1 my car was spinning alot. Tape 3 my car was going straight. Maia

The car went under the kitchen table.1 was super slow.2 was fine. But 3 it was super fast. By Elijah Pedanou

Ellie: The car fell off the table each time but they were all diffrent ways.

It went so fast that it crashed into my little sisters foot (but shes okay) -Kyara

Keziah: 1: It did not go fast but it did curve a lot. 2: It went really fast, but it did not curve.

What can we conclude about the relationship between elastic potential energy and kinetic energy based on our experiment?

The farther back we pull the car, the farther and faster it goes. When we pull it back to tape 3, it goes so fast and so far that it crashes into things and flips over!

Tell me about your predictions for part two of this experiment. How will adding pennies to the top of the car change your results? Remember to add your name to your sticky!

Leila: I think its gonna roll perfectly fine but I also think it might fall of to.

David, I think that the car will go slower because of the weight.

I think that the pennies will make the car slower.Orlian

Ellie:I think the pennies will make the car slower.

brooklynn
I think the car will go real SLOW

I think that it will go slower than before - nylah

Rose; I think it will roll strait and no more turns .

I think the weight of the pennies were pushing down on the car making it go slow - Kyara

Astrid - What I think will happen is that by adding pennies to the pull back car it will go slower and not that fast.

I think the car will go so slow that it can't move. Maia

Is slower and not that fast.
Alexander

Aaron- i think it will go slower, because there is more weight.

Keziah: It will not go as fast as when it did not have the pennies.

Olivya: I think it will go faster.

My predictions for number 2 is that it will go even slower and keep turning around.Rania

The car will be less fast with the pennies because the wind blowing at it will make it go straight Erel.

I think the car will go fast. by Elijah Pedanou

I think it is going to be slower sense theirs more weight on it. Kevin

I think it will go slower scene there is more weight.- Mia

i think it will go fast but it will move slow. Tati

I think even with all the weight on it, it will still go fast.- Nathaniel

I think it will go slow but I can't do it because I don't have stickies or tape.angelyn

I think that it will be faster.
MAKAYLA

I think at first it will go slow then start to go fast then really fast.Caleb

Keziah: It used a lot of kinetic energy.

Tell me something you observed in part two of the experiment. How did adding pennies to the top of your car change your results? Remember to add your name to your sticky!

It curved to the right. Kevin

It didnt even get 1 foot. Kevin

It went only 16 inches (didn't even get past tape # 2). Kevin

Ellie: It was slower than part 1.

Aaron- it was slower.

it ddid not go brooklyn

I saw that the car still went fast and far. Olian

I carwent faster and farther. YAY. WAY BETTER THAN THE ONE WITH NO PENNIES CUZ IT HAD WAY MORE ENRGY. MAKAYLA

Oliya: THE CAR WENT SO FAST! But my question is why?

It went in a circle. Kevin

It slammed into the wall. Kevin

It didn't even get past the start tape. Kevin

I observed it went slow at number one but went real fast that it almost got stuck under my couch. Caleb

It went slower than part 1 (like in my prediction) -Nylah

it was slower and it seemed like it was heavier. -Mia

Nathaniel-That on tape 3 trial 1 and 2 it went faster than tape 1 and 2.

It went really slow on Tape 1, 2, and 3 it didn't do anything at all only some went a bit but not really. Rania

Rose; it went super fast and the speed was lots fast and past the start then at 3 it turned and... wait for number 2

David, It was unspeakable it went fast then slow then fast again but MY PREDICTION WAS GREAT! It was slow at first but it was like after that you could never know for sure.

It didn't even move, then it moved a little bit. Maia

Leila: It didn't really change the only thing that changed was 1 was really slow 2 was slow then 3 was having kinetic energy.

it was really slow. -Kyara

it was faster but not too fast but it was faster than 1 and 2 and is stable. Alexander

Astrid - It changed it by it went a little slow on tape 3 but on tape 2 and 1 it went fast even with the mass on the pennies.

I observed that the coin had no effect. By Elijah Pedanou

Rose part 2! it kepted turning by the computer so a full turn it was litting micuen speed and... wait for number 3 3 is my last one...

Even though I could not do the project when I saw rose do it went REALLY FAST but really cool. Angelyn

it was slow more and went straight Erel.

Keziah: It was the same as number one.

Rose part 3 it was my prediction so I was correct with mine so this was my last sticky.

What can we conclude about the relationship between mass and kinetic energy based on our experiment?

When we did not put mass the car went faster but slower but when we put mass on the car it went slow and then fast and slow well... you get the point the mass makes the car speed hard to guess. - David

When you add extra weight (mass) to your car, it goes slower. The mass in the car affected the kinetic energy of the car.

Think about our other vocabulary words (force, collision, gravity, friction). How might we use our pull-back cars to experiment with these things? Remember to put your name on your sticky!

By pulling the car back you are using force and when it goes super fast and collide with something it makes a collision.-Nathaniel

It looked like friction was on a vaca cuz it did nothing force was the reason why the car when fast/slow I did not see any collision but it would make it bounce and maybe make it go faster.

pull the car back brooklynn

The car kept touching the chair behind the experiment (friction) - Nylah Tape "3" Trial It went farther than tape one and two I think because I used more force. - Nylah

force to pull back the car and force to make it go forward left or right.kevin

Rose; if you were on a rug then it will go slower beacuse there is friction.

I wanna know how can people in the future break gravity so it can aloud people to feel how life on the moon is.Caleb

A slinky because it causes force which means the slinky will pull back. By Elijah Pedanou

Pull the car back and let it go. MAKAYLA

David after the pendulum I know the gravity did its work because the gravity of Earth makes things go faster.

By pulling 2 cars at the same time by both of them hitting each other it creates a collision. Orlian

Olivya: Pull back the car, Let it go and find out what scientific word can describe how far it car went.

You push your car back and the force is strong and the impact is powerful. Alexander

I wanna know what the whole world will be like with no gravity.angelyn

friction to make the car drive on a tiled,wodden floor,or wodden table.kevin

maybe you can get a blow dryer and a ball with the ball on top of the blow dryer and blow dryer on and watch it float and this is called gravity. Tati

I think it would have been so much different on the rug cause the car won't move. Maia

Astrid - I think when you pull back the car friction helps it slow down like if we did it on carpet but if we did it on wood than the car gets slower and slower in till it stops.

Keziah: Collision: We could tape two cars together.

Leila:If we did it on a rug it would create less friction the car would barely move.

Aaron- we more force, so it can be faster

It would be friction because the pull back car would rubed up against the penny and it gives it friction.Rania

I think when you put the wheels in water it will go alot faster becuase with the water it would slide with the tires to make it go more fast Erel

Pull the car far far back then let go. -Kyara