

[REDACTED]
[REDACTED]
[REDACTED]

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Elective: Tech Ed.

Track: Yellow 7 & 8

Egg Drop: The Second Fall

NASA's rover, SPIRIT, was dropped on the planet, Mars. This experiment relates to the egg drop because, like NASA, we have to find a way to protect our cargo, whether it be a rover, astronauts, or eggs. We might not have the knowledge, or tools that NASA has, but we have the creativity, ingenuity, and determination.

[REDACTED] Point Of View: It was a nice, sunny morning. The day was still young. I held the box, my hands trembling. I waited patiently for my turn to drop the contraption. The box was covered in bubble wrap, so a bubble popped once or twice in my grasp. It was finally my turn. I take in a breath, and look down at the large area we were supposed to drop our project on. I could taste the tension in the air as I looked at the ground. I slowly counted down from 5, then I dropped the box, and it silently tumbled through the air. It landed on the ground with a loud thudding sound. The bubble wrap made a few popping sounds when it hit the ground. I held my breath for a few seconds. I ran from the outside of the building, down the stairs, and through the double doors. I looked at the box on the floor. [REDACTED] and I opened the different layers of protection. When we opened the box, I searched for the eggs. I found one, and pulled it out. It was perfectly safe, but one of the packing

peanuts was stuck to the side of it. The egg was still cold when I handed it to [REDACTED] (her) and I looked for the other egg. I found it, and it was in perfect condition, like the other. I sighed happily, but on the inside, I was jumping for joy. The air smelled of victory and happiness.

[REDACTED]'s Point Of View: As [REDACTED] (she) walked towards the rail of the bridge, ready to drop the egg down the harrowing drop of 5.75 meters, I braced myself for the possible demolition of the eggs that we had worked so hard to protect. The sun's rays hit the bubble wrap covered box, creating a harsh glare off of the bubble wrap's reflective surface. As I envisioned the mixture of packing peanuts and cotton balls inside the small, slightly rectangular cardboard box, I could see [REDACTED] (her) hands trembling as she raised the box over the gaping chasm, and I could hear her voice quiver as she counted down, preparing to send the eggs to their possible demise. Finally, she let go of the box, and it plummeted downwards towards the concrete below. It hit the makeshift landing zone, a square with an X in the middle made out of tape. It hit right in the center of the X, making a soft pop as the bubble wrap hit the ground and the individual pockets exploded, releasing air. I set down my paper and walked towards the egg, hoping that they survived. As I was taking off the slightly popped bubble wrap, [REDACTED] comes and sits by me, anxiously awaiting to find out if the eggs survived. I open up the box, and [REDACTED] (she) searches for the eggs. After a few moments, she pulls out the first egg, which had no visible damage whatsoever, and was exactly the same as before the test, aside from the packing peanut stuck to the side of the egg. Then, she pulled out the second egg, which was also in perfect condition, and was showing no signs of damage. I sighed in relief, grateful that the test worked. I was proud that after

our previous failed attempts, we had finally overcome the challenge, and bested the egg drop.

The material we used, are as follows.

*A small brown box~We used this to hold the eggs in.

*Bubble Wrap~We used this on the outside of the box, as a shock absorber.

*Packing Peanuts~We put this inside the box, to protect the eggs. They are firm, and they keep the egg in place.

*Cotton Balls~Like the packing peanuts, we put them inside the box, to protect the eggs. They are soft, and lightweight, and they cushion the eggs.

Duct Tape~This was used to tape the box closed, and to keep the bubble wrap firm, and to make it stay on the box.

Our eggs survived, thankfully. We are ecstatic that our project went well. The things that worked well would have to be everything we used. The only problem was that we had originally planned that we were going to have balloons on the bottom of the box, but it would not fit the required size. So, we scrapped the balloons.

██████████: The thing I have learned was that our first few attempts didn't go as well as planned, but this time, our plan was flawless. I learned that you need to think things through before you mess things up, cause we didn't think the first or second one through, as much as this one.

██████████: I have learned that even though our first two attempts at protecting the egg failed, we can still overcome the challenge thrown at us by keeping a positive attitude,

staying focused, and working as a team, not as individuals. For our first two tests, we had goofed off during construction time, and had been having petty arguments that led to dysfunction between me and [REDACTED] (her). However, during our third test, we pulled ourselves together and were responsible, staying focused and working together as a team to create a device that would properly protect the egg from the fall.