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## Egg drop challenge worksheet pdf

Our annual egg drop project is one of the most anticipated STEM and scientific activities of the year at school. Check out this year's egg drop designs created by fourth grade students to get inspiration for their own egg drop ideas and make sure to print out free print planning and recording sheets. Don't forget to check out all the suggestions from previous years: This post contains affiliate links. What is the Egg Drop Project? Not sure what this popular STEM and STEAM activity is? In the drop egg project, children are invited to create a machine using a variety of materials (usually recyclable) to protect raw eggs from high fall. This physical activity is very common in school and high school classes, but we adapt it for elementary and even preschool! As we structured the Egg Drop Challenge this year 1. Students are first given a description of the challenge-protecting raw eggs from high fall, and it is their job to design some container or machine to protect that egg using materials brought in from home. There are many variations on the egg drop challenge. This year we decided not to allow cardboard boxes because they always seem to be the go-to material. We wanted to see what other ideas might come up with a place. 2. They then form a group of 2-3 students (and are also given the opportunity to work independently if they prefer). 3. In groups students brainstorm ideas for their eggs drop the machetors and record their final design on the print planning sheet. 4. They decide as a group that will bring that materials and write them down as a reminder when they get home. (We also provide additional supplies in the class to replenish your materials such as string, tape, scissors, various recyclables etc.) 5. The next day, children use their materials to build their masings together. We had a cat with a ground machete made of a plastic parachute bag, straws, tape, paper cups, paper plates and a string .... and more made from bubble wrap and garbage bag parachute, birthday cake themed design using lots of cotton balls, and even eggplant! 6. Each child is then given a print prediction sheet. As each group presents its design to the classroom, the other groups record each fabrications on the chart and predict whether it will protect the eggs or not. After all the groups have introduced their eggs drop the lice into the class, each group is then given raw eggs to bring inside their designs. (Many students love to decorate their eggs with Sharpies before placing them inside their designs.) 8. Children head out with their machine, eggs and record sheets on the clipboard. 9. This year my husband climbed onto the roof of the school to drop every machine. Each machine was dropped one by one and then the eggs checked to see if it survived the fall. (Eggplant and cotton swab worked!) The children then recorded whether each machine was working on their record sheets. This STEM project is really an absolute hit with kids! We often have other classes come out to watch because of the excitement. You can even do this project on a smaller scale with preschool or kindergarten students. No child is too young to design and create! View more scientific activities! Be sure to check out our STEAM Kids book and ebook for even more creative STEM and STEAM ideas! I couldn't resist buying another five dozen eggs last week. My family goes through eggs like crazy and Easter prices are only 0.99 cents a dozen, it was hard to stop at five dozen! So, if you're like me and have a glut of eggs (for today), maybe the Egg Drop Challenge has caught your eye. This challenge is a fun way to incorporate critical thinking and problem solving into fun scientific activities for children of almost any age! Free, printing a planning sheet is useful for designing and producing a container that will protect eggs from falling. Click here to download the free print! Carrie is the owner & operator of Homeschool Giveaways. She has been homeschooling for over a decade and successfully completed her first homeschooler. She has two girls and works side by side at home with her amazing husband. She has been saved by grace, failing daily, but continues to seek the price of a high calling to be the daughter of the Supreme God. Egg Drop Challenge! Dun dun dun... At my school, our teachers challenged us to build a device that would protect eggs when it was dropped from an 18ft tall balcony. The aim of the challenge was to learn how 3 of our classes (engineering, physics and algebra) fit together. It's easier to see a connection in real life (ish) challenges than on a worksheet. We started by getting into groups and assigning roles. I was the team leader, Riana was our builder, and Julianne was our documentary. Mostly we stuck to these roles, but since we only had three people, we helped each other a lot, especially during construction. We received a limited list of materials: StrawsCardboardToothpicksTapeHot glue gunYarnPacking peanutsPaper clipsPipe balls cleanersRubber bandNewspaperWe our egg-saving equipment had to be less than 12-12 to 12 , and we had one class period to come up with our design and list of materials. We also had another 3 class period to build the device, one to try with a plastic Easter egg, and 2 more to make adjustments. Then we'd make the last straw. After some research, we found that there are three main categories of egg-saving devices.1. The first absorbs strength by making materials such as packing peanuts, cotton, or newspapers around eggs to prevent eggs from having to take a lot of power. It's pretty basic, and just includes a stuffing box packaging materials. However, most proposals contain some aspects of this category.2. The second minimizes the amount of force that is put on the egg by slowing its descent. This is usually done with balloons or parachutes. We didn't have access to balloons, so if we wanted to use this type of design, we'd have to make a parachute out of a newspaper.3. The third design of egg-saving devices uses suspension to direct power elsewhere. Usually it works by suspending the eggs inside the container with rubber bands or some other elastic material. This design looked heavier than the others, but it was by far the best looking. Our group knew right away that we didn't just cram some newspaper into a box and call it a day, so we decided to make our egg-saving device with a third type of design: suspension. We decided that we would have eggs in a 4 cube with a pack of peanuts, and that a cardboard box would be suspended inside a 10 cardboard cube of rubber bands from the corners of a small box to the corners of a large box. We used two rubber bands on the corner and lined inside a large box with a pack of peanuts, just in case. Our group knew this design was going to be quite challenging, but we felt it would teach us the most about physics and engineering. The production of egg-saving equipment was, as expected, the most difficult part of the challenge. We got two days to build what we knew was going to be tight, but on the first day we didn't pack peanuts. The first day we started by two networks: one for each cube. We weren't able to assemble until we were ready to pause because we wanted to make sure that the rubber bands were as safe as possible. We finished the net with about 15 minutes to go, but until we lined a larger box with a pack of peanuts (which weren't there), we couldn't finish. The next day we had a pack of peanuts and worked as fast as we could to line a bigger box. As soon as we finished, we started working on assembling boxes with rubber bands, but we ran out of time. Because the teachers gave us a pack of peanuts late and most groups weren't ready, they gave us an extra day. On the last day we were able to complete our project. We tested our prototype by planting it from the balcony of our school. We weighed a plastic egg with rocks to make it closer to the weight of a real egg. The egg was placed in a smaller box and we pushed it out of the balcony. Then we quickly ran to the box and opened it to find out that... that we had cracked our plastic eggs. The next day, our teachers tested us with a prototype with a real egg. Our group already knew the result, so we put the egg in a plastic egg before placing the egg-saving device. When we opened the box, we found that... The egg survived! We weren't quite sure why, but this is because the weighed egg was too heavy. Even though the actual egg survived, our team still felt that we should make some improvements to the egg-saving device. It also took quite a beating after being thrown from the balcony so many times. On the inside, we packed peanuts and made rubber bands. Then we got the box. We finished repairing the prototype soon, so we added some drawings on the outside. It was time for the last drop. We said a prayer and set the eggs in a smaller box, hoping that the egg-saving device wouldn't become his final resting place. We pushed the egg out of the balcony and the landing was so loud that everyone was sure the egg had broken. But when we looked inside, the egg was fine! We ended up calculating egg momentum, strength and speed, among other things. We created a laboratory report and presented the project to the rest of the year. We decided that our design was effective, and we would recommend the Egg Drop Challenge for others. 1%Processing, please wait... It was processed successfully! If you are on a school computer or network, ask your technical person to whitelist these URLs:\*.wistia.com, fast.wistia.com, fast.wistia.net, embedwistia-a.akamaihd.netSomething simple recovery solves this problem. If you need further assistance, please contact us. 5Cooked eggs1Basing straws1Roll tape1Pair scissors1Sized paint sheet1Bin balloons, polystyrene, and other protective materials (optional)1Atricate a triangle of straw and record it together.2Count it twice more.3 Upload all 3 triangles together around the egg, to shape a pyramid shape from it.4Decide how else to dampe an egg - for example: use multiple straws5Calculated the painter's sheet on the floor.6 Hold the egg high above your head and throw it on the painter's sheet.7Court that it works? If you don't try a different design.8Be creative, test your own designs and materials (polystyrene, balloons, etc.) Science and engineering are all about testing, reviewing and testing again. Design always improves and improves. Engineers and scientists do this process for many things like designing cars to protect people in a crash. X XWe we sent you an email with instructions on how to reset your password. Ok Ok

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