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**Egg Drop Project**

1. ***Inquiring and Analyzing Phase***

***Problem***

We are trying to build a protective cover for an egg. This egg should keep the egg safe from a 3 story drop.

***Relevance***

This is relevant to the real world because it … *You should write a few sentences here about what you are learning. HINT: it is not about protecting eggs.*

***Prioritized Research Points***

1. List what you
2. Want
3. To
4. Research
5. Here

***Research Solution***

Write up your research. What did you look for, what is most important, what did you learn?

How do you know you gathered good and accurate information?

***Existing Product***

Find at least one egg drop design that inspires you. Why did it inspire you? What did you learn? What features will you adapt to your own project?

***MLA Format***

"How to Build a Tower of Cards." *WikiHow*. N.p., n.d. Web. 15 Sept. 2013.

"How to (using Techniques-ish) Make a House of Cards." *Instructables.com*. N.p., n.d. Web. 15 Sept. 2013.

*(Use* ***easybib.com*** *for MLA format, at least 2 sites must be used for research)*

1. ***Developing Ideas Phase***

***Success Criteria***

How will we know our egg drop container is a success?

1) *list success criteria*

2) *list success criteria*

3) *list success criteria*

***Design Ideas***

Egg

Cardboard Tube

Cotton

1.

If your design picture is hard to understand, write a sentence or two explaining it. You need at least two designs for this project. List the materials to be used. **Key features must be labeled or written**.

1. Instead of a picture, you can explain your design idea in paragraph form. Write what you are going to build, how you are going to build it, key features, and what materials you will need.

Our team decided to build Design 2. We chose this as our final design because… Describe the key features.

Create a blueprint for your final project. *This can include a detailed drawing, sequenced steps needed to successfully create, materials needed, etc…*

1. ***Creating the Solution Phase***

***Timeline***

|  |  |  |  |
| --- | --- | --- | --- |
| Day 1 | 9/10/14 | Research Egg Drops* Gather good ideas
* Keep websites in MLA format
 | Whole team |
| Day 2 | 9/12/14 | Write research and begin to formulate ideas | Ms. Russell – writingRest of Team – Designing |
| Day 3 | 9/14/14 | Research – DoneDesigns – DoneFinal Design ChosenBegin to create egg containment unit | Ms. Robles – create design in computerWhole Team – build egg containment |
| Day 4 | 9/16/14 | Egg Drop Today!!!!All pieces of report to be final except *Creating the Solution**And**Evaluating* | Whole Team |
| Day 5 | 9/18/14 | Finish Report Hand in to Boss | Whole Team |

C***hanges***

This is where you describe any changes to the plan. Did your plan go exactly as you thought or did you have to change anything? Did the tower fall, did you switch plans, etc…

1. ***Evaluation Phase***

***Test your Success***

Outline a method to measure the success of your egg containment unit.

* *Measurement of fall*
* *Number of Eggs broke in class vs. unbroken*
* *Weight of Egg*
* *Weight of Materials*
* *Did your egg* break?

Use data to justify the success and discuss.

How could your egg drop have been improved?

***Impact***

What was this project’s impact on you, your learning, or your classmates?

***Evaluate***

Rate how beneficial you were to the group (1-5). Explain.

Rate how each of your team members did (1-5). Explain.

**Works Cited**

“Engineering.” Encyclopedia Britannica. 2006. Encyclopedia Britannica Online. 23 August 2006 <http://search.eb.com/eb/article-9076727>.

Stevens, Wallace. “Sunday Morning.” Modern American Eggs. Ed. Thomas J. Hines. New York: Holt, Rinehart and Winston, 2003. 20-22.

Blake, Terry. “Material Composition.” The Plain Dealer 20 July 2006: A1.