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# The Unbreakable Egg

— Q10 —

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# PURPOSE & HYPOTHESIS

Purpose/question:

I would like to find out how many books an egg with nothing in it can last without them breaking.

Hypothesis:

I think the egg will break after like 5 books but depending the size and weight. Turns out i was wrong, the eggs stayed together until i added a heavier book for the 13th layer and that is when 2 eggs broke.

# MATERIALS

I used 4 eggs and tape to cover the tiny hole that i opened and i also used about 12-13 books

# EXPERIMENT

Step 1 :: Get your eggs.

Step 2 :: Make a little hole in your egg and take out everything in the egg.

Step 3 :: Once there's nothing left inside the eggs dry them and put tape around the hole.

Step 4 :: Arrange your 4 eggs in the shape of a rectangle.

Step 5 :: Get your books and add them onto your eggs carefully.

Step 6 :: After that i kept adding books till the eggs dropped.

# PHOTOS#1

This is when I was  
Taking out everything  
Inside the eggs.

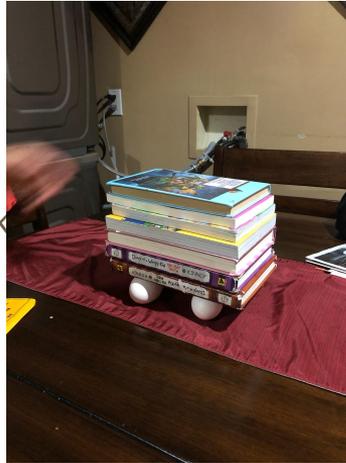


These are the eggs when  
They were dried off and  
Had tape . Also they are  
In the position For the  
books to be placed on  
Top.



# Photos #2

I added a few books  
And nothing happened  
Yet so I kept adding books



After 12 Books nothing  
Happened to the egg So I  
Decided to add a  
really heavy and thick  
Book/Journal for the eggs  
to crack.

The big journal ended up making  
The eggs break but i think they  
Broke because it had wrong  
Balance or it could have just been  
Because it was too heavy.



# ANALYSIS

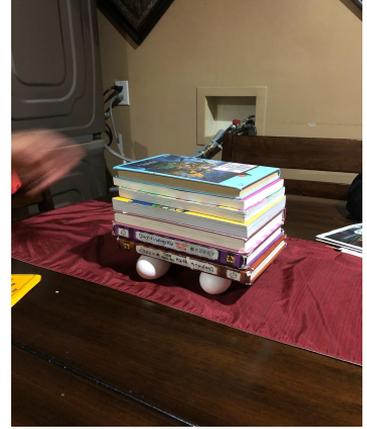
I made a tiny hole and  
Removed the white and  
The yolk that was inside.  
The egg



Then I added  
tape on the hole  
That we opened.



Then i added the first  
Couple of books and  
Nothing happened.



was



Until i added a bigger book that made 2 eggs break.

# RESEARCH

Websites visited:

[www.education.com](http://www.education.com)

[www.sciencebuddies.org](http://www.sciencebuddies.org)

[www.All-science-fair-projects.com](http://www.All-science-fair-projects.com)

[www.sciencebob.com](http://www.sciencebob.com)

Research: This project is to understand the weight distribution of an arch and i found that very interesting. I couldn't find books but with the website [www.education.com](http://www.education.com) i got information about my project and decided that "The Unbreakable Egg " was the one i wanted to do.

# CONCLUSION

The eggs broke because the book/journal was really heavy and thick . The eggs also could've broke because the book wasn't balanced well. My hypothesis was wrong because the eggs stayed together for like 12-13 books and i thought they would stay after 3-5 books.

# REAL WORLD CONNECTION

It matters because we can understand the weight distribution of arch with an egg. Many things are made with arches so we can understand how much a few eggs can hold.

# WORKS CITED

I visited these websites :

[www.education.com](http://www.education.com)

[www.Sciencebuddies.org](http://www.Sciencebuddies.org)

[www.sciencebob.com](http://www.sciencebob.com)