

Student Name \_\_\_\_\_ Homeroom Teacher \_\_\_\_\_

## NTI Day 17

### Special Area -STEM Lab 3-5

You may access this lesson electronically from the following webpages:

Special Area - <http://cgesspecialarea.weebly.com/>

STEM Lab - <http://cgesstem.weebly.com/>

NGSS: 3-5-ETS1-2	Learning Target: I am creating a design for a package that is most likely to protect an egg.
Challenge	<ul style="list-style-type: none"><li>Design a package that will keep an egg from being cracked or broken when dropped from a height of at least six feet.</li></ul>
Criteria/Constraints	<ul style="list-style-type: none"><li>The egg must stay inside the package and not be broken or cracked after being dropped. The package should be no larger than 4"X4"X4". You may use a raw egg or plastic egg filled with 20 pennies to give it weight. The egg should be dropped from a height of at least six feet. The package must be designed of recycled materials you have at home - cardboard, paper, straws, sticks, bubble wrap, cotton balls, rubber bands, Styrofoam, paper cup, toilet paper rolls, plastic wrap, sponges, other recycle materials you have at home.</li></ul>
Choose one way to show your design:	<ul style="list-style-type: none"><li>Egg package may be a drawing of your idea on the other side of this paper or a different piece of paper</li><li>Color the drawing</li><li>Label the materials you would use if you were going to make the egg package with recycled materials from home</li></ul> <p style="text-align: center;"><b><u>OR</u></b></p> <ul style="list-style-type: none"><li>Egg package may be a model of your idea made with recycled materials you have at home</li><li>Put an egg in the package and test your design. Observe - did the egg stay in the package without breaking or cracking when dropped?</li></ul>
Reflection	<ul style="list-style-type: none"><li>Explain why you think your design and materials will keep the egg safe.</li><li>If you chose to do a drawing turn in your drawing on paper with the explanation or write your explanation and upload a picture of it on the Google form for NTI Day 17 on the Special Area web page.</li><li>If you chose to make a model upload a picture of it along with completing the reflection question on the Google form for NTI Day 17 on the Special Area web page.</li></ul>