



Ian Baillie Egg Drop Challenge



It's simple... Who can you design a contraption that will get an egg safely to the ground?

HINT: The law of inertia says that an object in motion will stay in motion unless another forces acts upon it. What forces will be acting on your egg? Which ones can you alter?

MATERIALS

Every package will contain:

- 1 Ziploc bag
 - 4 paper clips
 - 3 Popsicle sticks
 - 2 sheets of card stock
 - 2 pipe cleaner
 - 1 Dixie cup
 - 1 meter of string
- Plus... you can use/add any fasteners you like (tape, glue, nails, or screws)



BRAINSTORM

Work with a partner and ask adults to help! Hint: It will be dropped quickly, so a slow lowering will NOT be an option! It's an egg DROP! The force of the impact will increase with the speed of the egg. Can you slow the speed of the egg?

BUILD

Work with a partner and ask adults to help! Hint: It doesn't need to be a parachute, how about a case, wings, or a spring?

Design Question: What happens if your egg is taken out undamaged and you make it to the next round? Can you load another egg in to go again?

TEST/COMPLETE

Can your egg make it safely to the ground? Bring it to school for a special assembly **January 26th at 12:50 pm**

**Parents and Family
are Welcome
To Attend!**

PLEASE SEND HOME ONE KIT FOR...

CHILD
to assemble, invent, & engineer

PARTNER 1 (if you have one)

PARTNER 2 (if you have one)

Parent/Guardian

Date: _____