

# Model Space Capsule Challenge

Design a model of a space capsule that will keep astronauts safe during their return to Earth.



Smithsonian  
*Science Education Center*

HOW DOES ENERGY MOVE FROM ONE OBJECT TO ANOTHER?  
Model Space Capsule Requirements  
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CREDIT: NASA

# Criteria and Constraints

The **criteria** for the problem are:

- The capsule must cover the whole egg.
- The capsule must have an outer shell.
- The capsule must stop the egg from cracking when dropped from the teacher's shoulder.
- The capsule must be no longer than 15 cm and no wider than 10 cm.
- You must be able to take the egg out of the capsule easily.

The **constraints** for this problem are:

- You can't take longer than two class periods.
- You can't use other materials.