

# NASAexplores

## Model Projects 2002: Space Shuttle and Spacecraft

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### Space Shuttle Models

#### *Did you know that...*

Weight and volume have always been primary design factors for every piece of hardware launched into space. The Shuttle is no exception. Weight allowed for food is limited to 3.8 pounds per person per day, which includes the 1 pound of packaging for each person each day. Foods are individually packaged and stowed for easy handling in the zero gravity of space.

#### *My Future Space Shuttle* (K-4)

Design a model of what the future Space Shuttle could look like.  
[ [Teacher Sheets](#) ] [ [Student Sheets](#) ] [ [Printer-Friendly Version](#) ]

#### *Shuttle 'Copter* (K-4)

Build a spiraling Shuttle 'Copter.  
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#### *Space Shuttle Glider* (5-8)

Build a paper model of the Shuttle.  
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#### *Did you know that...*

The Space Shuttle is the world's first reusable spacecraft, and the first spacecraft in history that can carry large satellites both to and from orbit. The Shuttle launches like a rocket, maneuvers in Earth orbit like a spacecraft and lands like an airplane. Each of the four Space Shuttle orbiters now in operation—Columbia, Discovery, Atlantis, and Endeavour—is designed to fly at least 100 missions.

For more trivia related to the Space Shuttle and other spacecraft, visit NASAexplores [Trivia](#).

## Shuttle-related Models

### *Parachutes And Parafoils* (9-12)

Build and test models of parachutes and parafoils.

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### *Shuttle Drag Parachute* (K-4)

Construct and test a parachute.

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### *Speed Brake* (5-8)

Build a paper model of the Shuttle that demonstrates a speed brake.

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## Other Spacecraft Models

### *Bottle Rocket* (5-8)

Construct a simple bottle rocket.

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### *Satellite Missions* (5-8)

Build a satellite model.

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## Spacecraft-related Models

### *Crash And Not Smash?* (5-8)

Construct and test a parafoil.

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### *Egg Drop Lander Contest* (9-12)

Design and build an egg drop lander.

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***Space Walking In Style***(K-4)

Construct a helmet and backpack to simulate a spacesuit.

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