Staying in Port: Squadron Maneuvers
*Intrepid* was an aircraft carrier. Now, it is a Museum in New York City.

**In service**

**As a museum today**
An aircraft carrier is an airport at sea. Airplanes took off from and landed on the flight deck.
A squadron is the group of people who take care of the aircraft and help them fly.

The pilot flies the airplanes or helicopters. In this picture he is standing in the middle. He is wearing his helmet and goggles.

What do you think some of the other jobs are?
Mechanics solve problems with planes. They find a problem and use tools to fix it.

Sometimes mechanics have to try more than once to fix the problem!
Mechanics use many different tools. What are some tools in your home? Which of these tools can you find? (Not everyone has the same tools.)

Tools to fix things:
- Hammer
- Screwdriver

Tools for cooking and eating:
- Fork
- Spatula

Tools for school:
- Pencil
- Scissors

Other tools:
To the flight deck!

Once the planes were ready to fly, the crew had to move the planes from inside the ship to the flight deck.

Watch a video about Intrepid’s aircraft elevator: https://youtu.be/vDOvr3ZzokU
Flying airplanes off of a ship is hard! Watch these videos to learn about take-off and landing.

- Video about launching airplanes: [https://youtu.be/qi80NCckk6Q](https://youtu.be/qi80NCckk6Q)
- Video about landing airplanes: [https://youtu.be/nxTs_jDF-bI](https://youtu.be/nxTs_jDF-bI)
Landing Signal Officers (LSO) waved paddles to show pilots how to land safely.

Let’s Move!
Follow the pictures from the LSO manual on the next page. If you are with someone else, one person can make the signals and the other person can pretend to be the airplane following the instructions!
LANDING SIGNAL OFFICER's

STANDARDIZED SIGNALS

**CUT**
- This is a crossing signal. The pilot turns to the left and then to the right as if he were giving a right-hand turn signal. The signal is given after the pilot has turned completely to the right, and is continued while the plane is under control.

**FLAPS DOWN**
- This signal indicates that the pilot is making the final approach.

**FAST**
- This signal indicates that the pilot is making the final approach.

**FLAPS UP**
- This signal indicates that the pilot is making the final approach.

**HOOK**
- This signal indicates that the pilot is making the final approach.

**LOW DIP**
- This signal indicates that the pilot is making the final approach.

**LOW HI**
- This signal indicates that the pilot is making the final approach.

**SLANT**
- This signal indicates that the pilot is making the final approach.

**WHEELS**
- This signal indicates that the pilot is making the final approach.

**WAVE OFF**
- This signal indicates that the pilot is making the final approach.
Now, let’s fly our own planes!

Paper Plane Design Challenge

Create a paper plane using the attached instructions. Test your plane in a safe location.

• How high does it fly?

• How far?

Once you have tested Intrepid’s plane - try experimenting with your own design.

See if your design can fly higher or farther than ours!
First, choose the type of paper you would use and lay it out in front of you.

Fold the paper in half long-ways and press down on the fold.

Open the paper back up.
Fold the top corner down along the center fold so that it makes a triangle.

Make the same fold on the other side, so that the top of the paper makes a big triangle. Press down.

Now, fold one side in toward the center, so that the edge touches the center fold line again. Press down.

Make the same fold on the other side.
Fold your plane in half, so that the folds you have already made are on the inside.

Now, fold one side down, starting about 2 inches away from the point.

Flip your plane over and make the same fold on the other side.

Open the wings up and your plane is ready to fly. You are ready to test it out!
Thank you from the Intrepid Sea, Air & Space Museum!

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