

# WORKSHOP EXTENSION ACTIVITY

Built by The Home Depot Kids Workshop



## HELICOPTER

Ages 5-12

**MAKE. CREATE. EXPLORE.**

#KidsWorkshopExplore





## Mission: Helicopter Rescue

### Flying High

While airplanes and helicopters are similar because they both fly, they're actually designed very differently! Think about what you know about these two types of aircraft and jot down some of their differences below.

#### Helicopters

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#### Airplanes

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Use [#KidsWorkshopExplore](#) to post a picture of your mission-ready helicopter.

It's hard enough to search for people during the day, but it's a whole other operation when you have to search for them at night.

Now take a look back through your list and see if you thought of one of their biggest differences: The way they take off and land! While an airplane needs a runway to prepare to take off and then come back down, a helicopter can lift straight up just by spinning its propeller quickly. It can then return to the ground the same way.

For this reason, helicopters are much better at search and rescue than airplanes could ever be. Because helicopters don't need a long clearing to land, they can easily drop down and pick people up out of just about any kind of situation!

## Mission: Helicopter Rescue

### You'll need...

- Your helicopter
- reflective tape
- strip LED lights
- small LED flashlight
- string
- glow in the dark paint
- self-adhesive felt pads
- insulation tape
- stretch wrap
- glue

### Darkness Buster

Right now, you have a helicopter. But can you turn it into a rescue helicopter that takes on nighttime missions? It's hard enough to search for people during the day, but it's a whole other operation when you have to search for them at night.

Think about what you could add to your helicopter to make it function well in the dark. If you were flying the helicopter, what would you need to be able to see? Should others be able to see you? Looking at the materials list, what could you add to your helicopter to make this happen?

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## Weather Warrior

While some rescues may take place on warm sunny days, many occur when the weather gets tough. In fact, bad weather is often the very reason why people need to be rescued! This means that your helicopter must be able to take off, fly and land in all kinds of weather. Use the chart below to brainstorm how to make this possible:

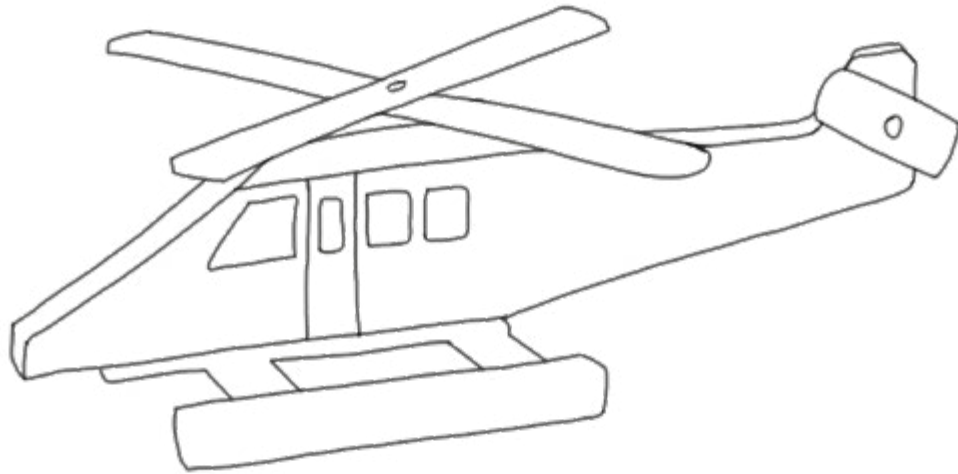
<b>Weather Condition</b>	How would this weather change your rescue mission?	What could you add to your helicopter to make it fly better or rescue more easily in this type of weather? <i>(Think about creative ways to use the materials you have available!)</i>
<b>Rain</b>		
<b>Snow</b>		
<b>Ice</b>		
<b>Other types of weather:</b>		



## Transformation Time

Now use these ideas to make your helicopter into a 24/7 all-weather rescue mobile. Before you make any changes to your actual helicopter, sketch the transformation below:

*Sketch your helicopter modifications here:*



Then grab the materials you need and turn your sketch into the real thing! Think carefully about what features would make sense to add first, second, third and so on. Don't be afraid to make changes to your original plan if something doesn't work or you have a new idea.

### Materials List

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



Use [#KidsWorkshopExplore](#) to post a picture of your mission-ready helicopter.

## Extreme Measures

Though your helicopter should now be prepared for just about any mission that comes its way, some rescues may call for extreme measures. Use your imagination to draw a rescue scenario below. Then consider: What alterations would your helicopter need to make the rescue go as smoothly as possible? You don't have to change the design of your actual helicopter (unless you'd like to!) but at least keep a list of the materials needed so you're ready to go if disaster strikes.

*Draw your rescue scenario here:*

## Materials List

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



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