

Laura McShane

## Helicopters LIFT! 50 min

Objective:

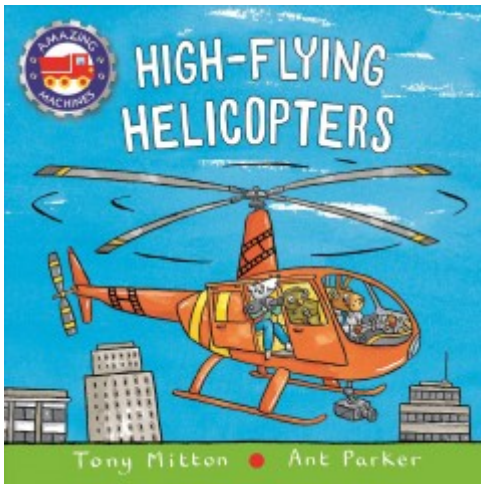
Understand role of helicopters in transport

Big Idea:

Aircraft carry people and things - how are helicopters different from airplanes?

### 1. Warm Up / Anticipatory 15 min

Share [High-Flying Helicopters](#) by Tony Mitton and illustrated by Ant Parker





How do airplanes fly? Gravity pulls airplanes down.

Airplanes need wings in order to create lift. Lift pushes against gravity. Air creates lift by flowing around the airplane's wings. The plane must gain speed to push the air around the wings. Propellers or jet engines also push or pull the plane forward. This is called thrust.

## 2. Investigation and New Learning 15 min

Review vocabulary:

Rotor\_blades

Propeller

Pilot

Cockpit

Cabin

Controls- Collective/Cyclic

Skids

Tail\_Boom

Lift

Thrust

Compare helicopters and planes - what have you learned?

## 3. Review & Check for Understanding 30 min

Make your own Rotor blade:

[https://www.exploratorium.edu/science\\_explorer/rot...](https://www.exploratorium.edu/science_explorer/rot...)

Take the Wonder Quiz:

<https://wonderopolis.org/wonder/how-do-helicopters...>