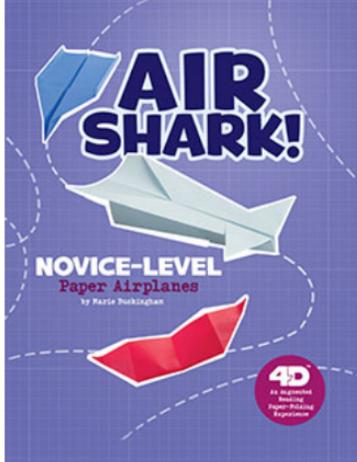


At Home Makerspace - Crafty - Paper Airplanes



Challenges:

Can you create the fastest paper airplane?

Can your paper airplane travel the farthest or do any tricks?

You can use this book available in your SSO, Single Sign-on portal, Library Resources to create a variety of paper airplanes.

To access this book:

1. Log in to the SSO portal.
2. Click on Library Resources.



3. Click on Capstone Interactive.



4. Search for [Air Shark!](#) Open the book and begin reading and following directions.

Materials: Paper, scissors, tape, and your imagination. Optional: stickers and colors to decorate

DIYNetwork Paper Airplane Tutorials Link

<https://www.diynetwork.com/made-and-remade/learn-it/5-basic-paper-airplanes>

MakerCamp Paper Airplanes provided by Make.com

<https://makercamp.com/wp-content/uploads/2015/07/W5D1.pdf>

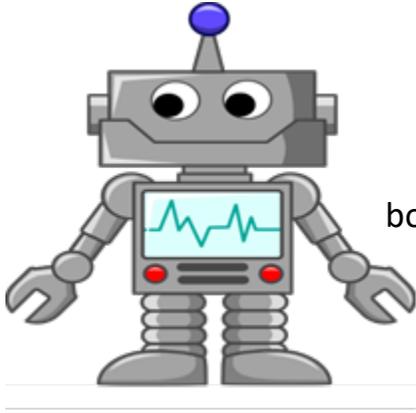
More online books from Capstone Interactive with step-by-step directions.



Techy & Family Challenge-

Take-Apart Robot Challenge

*****This project is designed for parents/guardian and students and is not recommended for students to do on their own.***



Challenge:

Using old/unusable technology (phones, keyboards, circuit boards, etc.) to create a robot. *****This project does not have to be complex- imagine a shoebox with black paint and keyboard keys.***

Materials:

- Several different types of technology pieces that are easy to take apart (i.e. broken computers, alarm clocks, phones, keyboards).
- Goggles for students to protect their eyes.
- An assortment of tools, such as screwdrivers, pliers, etc.

*****For safety, cut off the power cords before allowing students to tackle the tech. Make sure to discuss how to safely take apart technology before letting students loose and set consequences for misuse of the tools.**

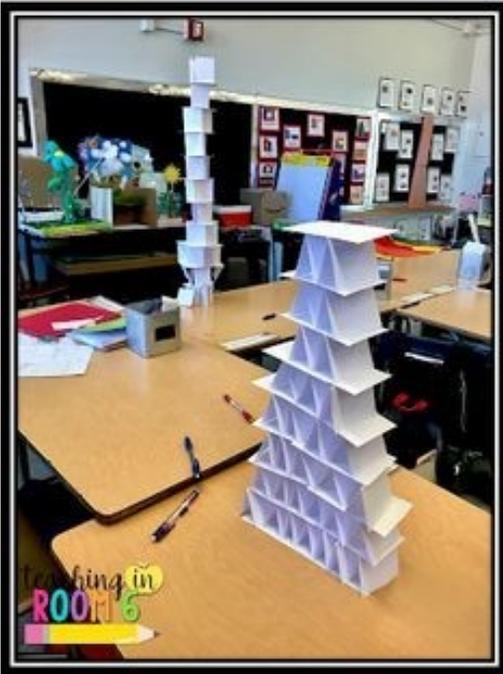
First: Take apart the tech and salvage pieces for students to design their robots.

Second: Brainstorm and design a robot. Using the pieces students can begin creating their robots.

Third: Students can create the stories or videos about their robots.

Building - Index Card Towers

How tall can you go?



Materials:

Index Cards or a Deck of Playing Cards

Directions:

Build a tower using only index cards or a deck of playing cards. NO TAPE ALLOWED!

Measure your tower to see how high it is and then challenge yourself to make it bigger and taller!

It is harder than you think!!

Have fun.