



**WARRENSVILLE
HEIGHTS**
City School District



Grade: PreK-K
Project: Design and Build A Beanstalk

BOOK INSPIRED STEAM: Jack and Beanstalk

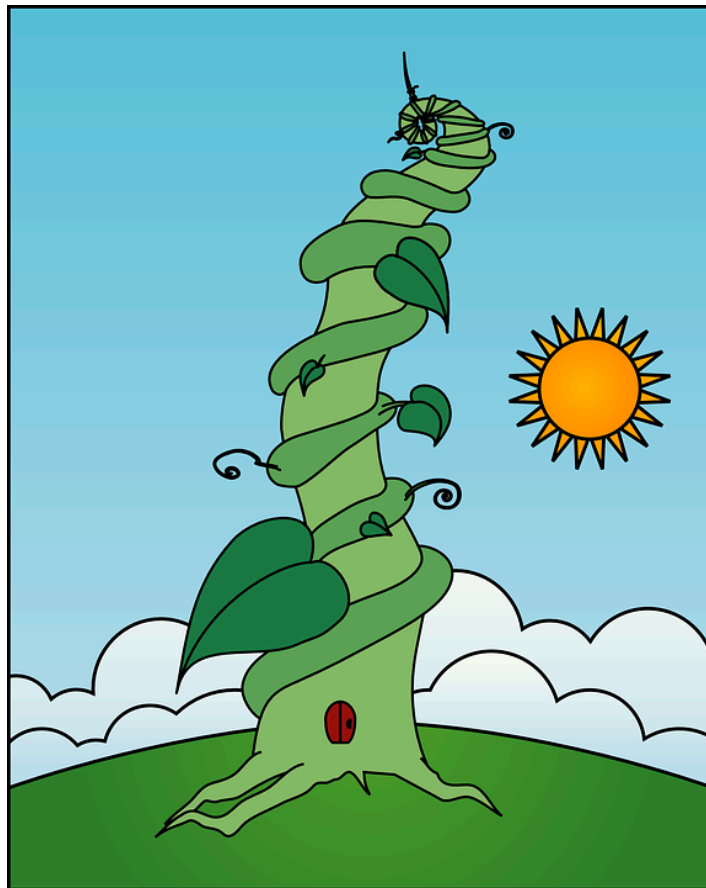
Instructions:

Scholars will:

- View the recorded story of Jack and the Beanstalk
- Design TWO (2) different ideas of a Beanstalk
- Build their own Beanstalk

Materials

- Pipecleaners
- Skewers
- Modeling Clay
- Cardstock paper
- Marker
- Plastic Egg





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IDEA #1	IDEA# 2

THE DESIGN PROCESS





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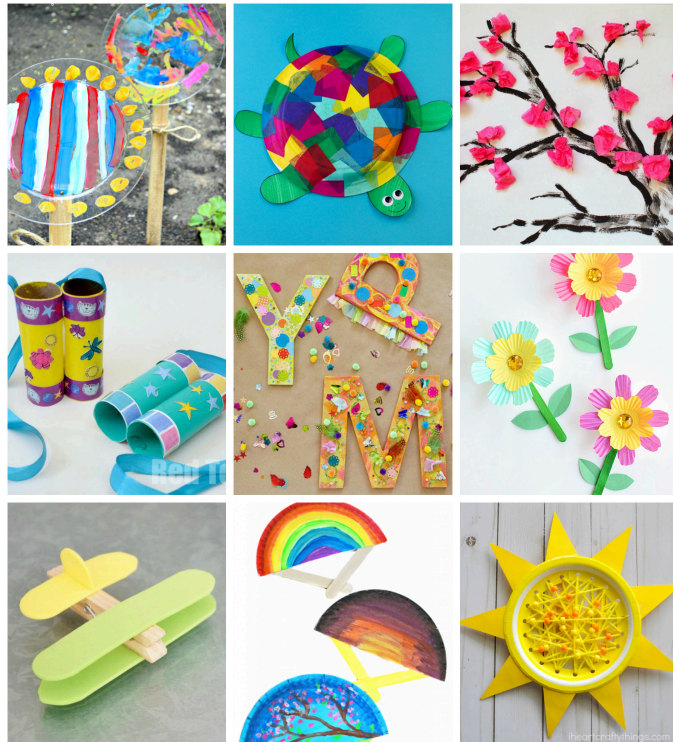
Project: Design and Create from The Maker Bags

Instructions: Design Create and Share Scholars will

- Watch the video of “ What is an Engineer”
- Explore the materials in their activity bag
- Design an idea with materials (design sheet on the back)
- Create, Make, and Share

Materials

- Paper
- Cardboard
- Pipe cleaners
- Strip of tape dots
- Model clay
- craft sticks
- Wiggle eyes





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Project: Design and Build Catapults

Instructions: Design Create and Share

Scholars will

- Watch the video “What is an Engineer”
- Explore the materials in their activity bag
- Design an idea(s) for a catapult (design sheet on the back)
- Create/Build the catapult

Material

- Paper
- Craft sticks
- Rubber bands
- Cotton ball
- Plastic spoon





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IDEA #1	IDEA# 2



The Design Process



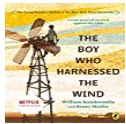
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Grade: Five Project: Design and Build Windmills

BOOK INSPIRED STEAM: The Boy who harnessed the wind.



Instructions:

Scholars will:

- Watch the video “ What is an Engineer”
- Explore the materials in their activity bag
- Design an idea(s) for the windmill (design sheet on the back)
- Create/Build the Windmill

Materials

- Tape dots
- Skewers
- Modeling Clay
- Cardstock paper
- Cup
- Craft sticks
- Paper clips
- Straws





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Grade: Six - Eight Project: Explore and Code

Instructions:

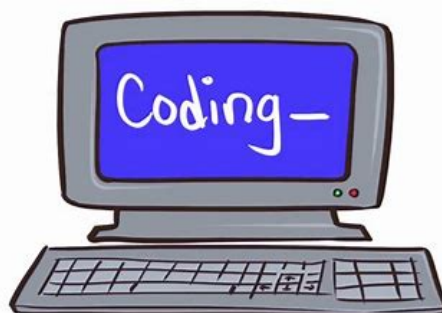
Scholars will:

- Watch the video “What is an Engineer”
- Watch the videos ~What is Computer Science /complete google form
- Explore the code.org site to Code and Create
- Browse and Evaluate submitted STEAM fair project

Materials:

Instruction sheet

Chromebook





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Grade: Nine-Twelve Project: Graphic Design

Instructions:

Scholars will:

- Watch the video “What is an Engineer”
- Watch the videos ~What is a graphic designer /complete google form
- Evaluate and Vote on the best design
- Browse and Evaluate submitted STEAM fair project

