

Robo-Biographies

Bring your biography to life by incorporating coding and robotics! Students can create a customized costume to put their robot in character while sharing about their research. Create a costume to capture the personality of a person, celebrate a famous invention, or highlight a specific career!

Activity Sequence

1. Students select who they want to research and gather facts about their life. Use the sample graphic organizer to help organize information and key events.
2. Design a costume with the blank costume template. Students can decide if they want to create a costume for their person or for something they are known for, like an invention.
 - For example: If researching Admiral Grace Hopper, students can design a military uniform to represent her time in the US Navy. Another costume option is to design a Root to be a moth, since Admiral Hopper is also famous for finding the first “bug” in code, which happened to be an actual moth trapped in the computer!
3. Use the research and graphic organizer to design scenes that tell about the life of each person. Suggested categories include childhood, adulthood, and contributions.
4. Open the iRobot™ Coding App and click the “+” to open a new project. Click on the Root robot icon to pair your robot.
5. Students can code Root to move through each scene as they present their research.
6. Place the costume on Root, press Play, and share with the class!

**Subject(s):**

Coding / Robotics
ELA
Social Studies

Experience Level:

Beginner
Intermediate

Time:

60+ mins

Group Size:

Small Groups
Individual

Supplies:

Root® Coding Robot
iRobot® Coding App
Costume template
Art supplies

Looking for biographies about STEM superstars for students? Check out the **iRobot Education Learning Library** for additional resources under **Generations of STEM!**

Name: _____

Date: _____

Robo-Biographies



Select a person to research and find facts about their life.
There are suggested questions to help guide your research.

I am researching about _____

Childhood: When were they born? Where did they grow up? What was their childhood like?

Adulthood: What is/was their job? What are interesting facts about their life? What are some of their strengths and characteristics that helped them succeed?

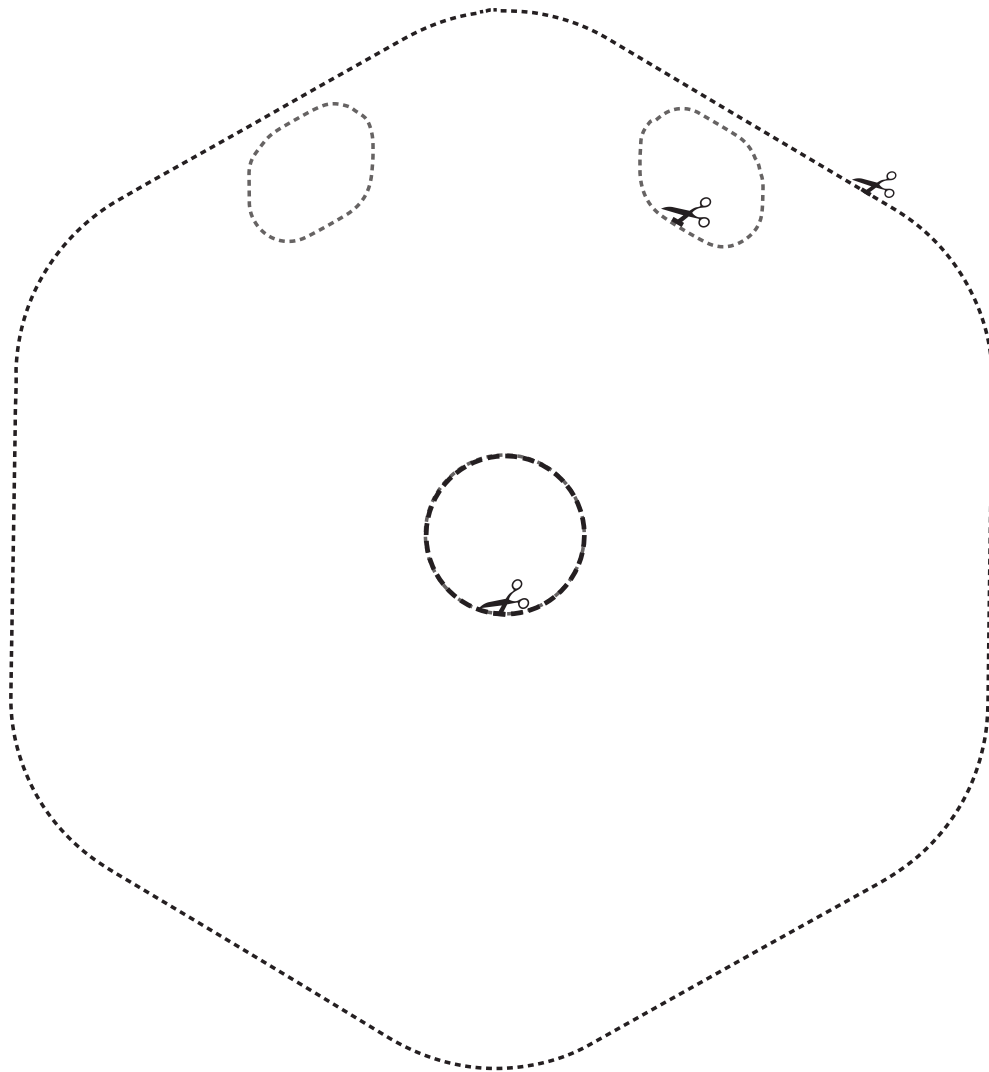
Contributions: How did they contribute to society? What are they best known for? What are some of their accomplishments? Why is it important to learn about them?

Name: _____

Date: _____

Root Costume Design

Use this outline to design & create a robot costume for Root to wear.



Tip: You can program Root's Marker Holder with the Marker Up and Marker Down Blocks to create moving costume pieces!