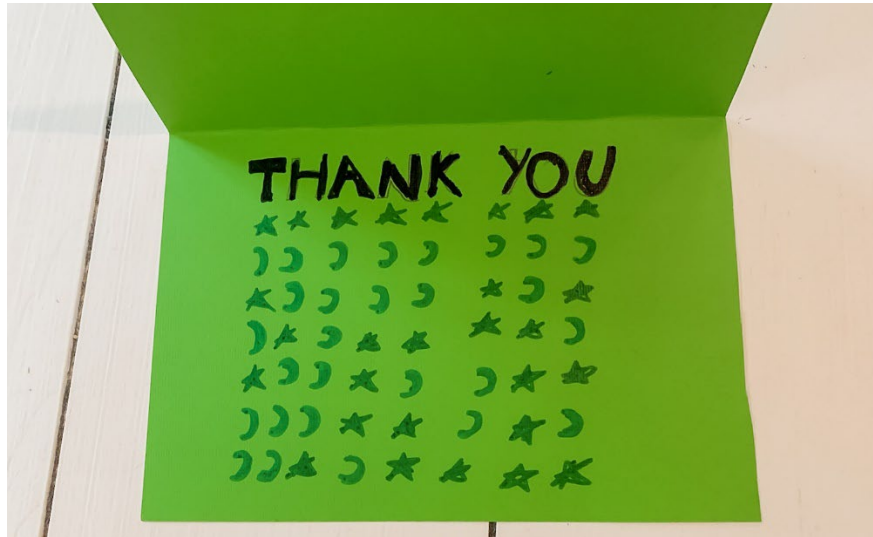# "Binary Thank You Card" Lesson Plan Overview – for ages 5 to 8

Session 1 - Overview
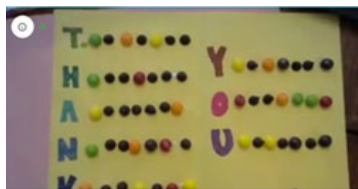
Student preparation in advance of lesson:

- o Have a computer with virtual meeting software
- o Paper – preferably construction paper or thick paper – markers or crayons, pencil

Student learning objectives:

- o Learn the basics of binary – including examples of other binary systems
- o Showcase their creativity by making a card
- o Write "thank you" in binary

More Info

Ages: 5 to 8 years old – this is an overview that will require adjusting to the unique needs of your students. This lesson is built on the "Binary Thank You Card" activity and the presentation will support your lesson.

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Binary Thank You Card	45 minutes
Welcome and introduction	5 min
How do computers think? Provide a simple explanation of what binary numbers are	3 min
Different types of binary systems Examples, braille and Morse code	2 min

Students think about their card design
    o   Who should the card be to?
    o   What symbols do I want to use for my 1s and 0s?
    o   What picture do I want on the front of my card?
	5 min

Students create their cards "Thank You" in binary should be on the screen while the students are working (note – if students finish early they can begin on additional cards)	15 min
Students showcase their work	10 min
Q & A	5 min

Supplemental information for this lesson can be found in the STEM@CGI at Home Activity Pack.