

# Understanding Blockchain

TOPIC: FOUNDATIONAL PRINCIPLES

GRADES: 3-5, 6-8, 9-12

LESSON DURATION: 1-4 HOURS

SOFT SKILLS: COMMUNICATION, COLLABORATION, GRIT, PROBLEM SOLVING

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## Introduction:

- This lesson can be used at any grade level, dependent upon background knowledge. It's designed to be teacher-friendly with available resources if the teacher wants to expand on the topic.

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## Learning Outcome:

- Students will define software as the instructions given to a computer to perform a task.
- Students will display knowledge of the difference between hardware and software through completion of a task involving an algorithm.

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## Materials:

- The teacher may choose to use tangible objects during the discussion to make it more interactive for the audience.
- [Information for the teacher including video links](#)
- [A presentation on cryptocurrency \(if desired\)](#)

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## Activities:

1. This is a discussion based lesson led by the teacher. Interactive options are available to make it more hands on for the students. [All information can be found on this handout.](#)
2. The initial discussion of blockchain could be enhanced by using real chocolate or a tangible item of the teacher's choosing.
3. The teacher may also choose to use the presentation on cryptocurrency so that students can understand this concept. Not all students will be ready for this conversation so teacher discretion is advised.

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