

## Lesson # : Binary

### Overview

*Provide a general overview the lesson. Include teaching tips here, if any.*

*Students will learn about the binary numbering systems by demonstrating using the card numbering system. In addition students will learn that binary is zeros and ones. After the demonstration students will complete the worksheet to reinforce their learning in the bi*

### Lesson Summary

- *Students will journal: How high can you count with your ten fingers?*
- *Students will demonstrate counting in binary using the “Count the Dots” activity*
- *Students will complete the worksheet on binary numbers after a brief explanation. Students will also decode using the binary system to display a message.*

### CS Content

*Provide a brief overview the CS content covered in this lesson.*

### Objectives

**Students will be able to:**

- Count Forward and backward in binary
- Explain why binary numbers are important in computer science
- Use binary digits to encode and decode messages

### Materials and Prep

- Cards with binary numbering
- [Binary worksheet](#)
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### Resources

#### Student Documents

- *Students will demonstrate on/off binary numbering*
- *Students will prepare worksheets*

#### Code Studio

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#### Video

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#### Assessments

- [Interactive activity](#)
- [Worksheet](#)
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### Notes

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