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| **UNIT 2** |  |  |

# Lesson / Days 10-12 : Binary

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| Overview *This lesson introduces the binary number system and how to count binary. Students will learn how to convert between binary and decimal numbers in the context of topics that are important to computer science.* Lesson Summary  * *Introduce with videos* * *Have students come forward to demonstrate* * *Complete worksheet with the secret messages* * *Write your own messages*  CS Content Inquiry using numbers greater than the cards will count. |  |  | Objectives **Students will be able to:**   * Count forward and backward in binary. * Explain why binary numbers are important in CS. * Use binary digits to encode and decode messages.  Materials and Prep  * Flash cards with dots  Resources **Student Documents**   * Worksheet activity: Sending secret messages   **Code Studio**  **Video**   * Youtube   **Assessments**   * verbal  Notes  |  | | --- | |  | |  | |  | |