



EXPLORING TECHNOLOGY AND NUMBERS: FROM 1 - 100

Grade Level: 2nd: 2 Class Periods

PROJECT DESCRIPTION

Students learn essential mathematical concepts through Exploring Technology and Numbers. Students will explore numbers up to 100 through a variety of engaging digital activities. This lesson includes a variety of activities designed to cater to different aspects of numerical understanding, including ordering, comparing, word-to-digit conversion, and skip-counting.

- The lesson uses online apps and incorporates cutting-edge tools like computers, tablets, and interactive whiteboards to harness the power of technology to create an immersive learning experience.
- Through carefully selected online games and exercises, students will not only grasp the fundamentals of numbers but also develop vital technological literacy skills. This innovative approach ensures that students not only gain proficiency in mathematics but also become adept in utilizing digital resources for meaningful educational purposes.
- By the end of this lesson plan, students will have a comprehensive grasp of numbers up to 100, paving the way for more advanced mathematical concepts in their academic journey.

STANDARDS

2.ETS2: Links Among Engineering, Technology, Science, and Society

- Use appropriate tools to make observations, record data, and refine design ideas

STEM: Problem Solving

- Understand and use technology in a responsible and ethical manner

Math

- 2.NBT.A.3 Read and write numbers to 1000 using standard form, word form, and expanded form.
 - 2.NBT.A.2 Count within 1000. Skip-count within 1000 by 5s, 10s, and 100s, starting from any number in its skip counting sequence.
 - 2.MD.B.6 Represent whole numbers as lengths from 0 on a number line and know that the points corresponding to the numbers on the number line are equally spaced. Use a number line to represent whole number sums and differences of lengths within 100.
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Objectives:

- Students will explore numbers up to 100 using technology.
 - Students will practice number sense, ordering, comparing, and skip-counting.
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MATERIALS:

- Computer or tablets
- Interactive whiteboard
- KNT Words 2 Digits and Number Line Lessons worksheets.



Engage (Duration: 10 minutes)

Activity: Number Line Exploration

- [Click here to access](#) an interactive number line (app) on the whiteboard.
 - teachers can explore ixl without an account
- Ask students to identify different numbers on the number line up to 100.
- Discuss the pattern and relationship between the numbers.



Explore (Duration: 15 minutes)

Activity: Interactive Math Games

- Provide students with tablets or computers.
- [Click here to access](#) interactive math game focusing on numbers up to 100, ordering, and comparing.
- Encourage students to play the games individually or in pairs.
- Circulate the room to provide support and guidance.



Explain (Duration: 10 minutes)

• Activity: Class Discussion - Number Comparison

- Display two random numbers on the whiteboard (e.g., 37 and 58).
- Ask students to compare the numbers and determine which one is greater.
- Discuss the symbols for comparison ($<$, $>$, $=$) and their meanings.



Elaborate (Duration: 40 minutes)

Activity: Word to Digit Conversion

- Write a two- two digit numbers in word form (e.g., thirty-two, fifty-seven, etc.) on the whiteboard.
- Discuss how we can convert these words into digits (standard form) (e.g., 32, 57, etc.).
- Print and distribute the **Words 2 Digits** worksheet to practice converting words to digits.

Question: How do we convert word form to standard form?



Evaluate (Duration: 15 minutes)

Activity: Skip-Counting and Counting Backward

1. Display a number line on the whiteboard from 1 to 100.
2. Practice skip-counting by fives and tens as a class.
3. Ask students to take turns coming up to the board to continue the pattern.
4. Practice counting backward by fives and tens as a class.

Question: Can you continue the pattern and count backward?

Assessment:

- Use the **Number Line Lessons** worksheet to assess students' understanding. For the bonus and challenge questions, encourage students to use skip-counting patterns to help them fill in the missing numbers.
- Observe student participation during the activities. Review completed worksheets for word to digit conversion accuracy. Evaluate students' ability to continue the skip-counting patterns on the whiteboard.



WORDS 2 DIGITS

NAME: _____ DATE: _____

Instructions: Write the numerical form for each word

Twenty-Three

Seventy-Eight

Forty-One

Ninety-nine

Sixty-Four