

2nd Grade Lesson Plan: AI Voice Assistant & Number Sorting

Common Core State Standards (CCSS) Alignment:

- **CCSS.MATH.CONTENT.2.OA.B.2:** Fluently add and subtract within 20 using mental strategies.
 - **CCSS.MATH.CONTENT.2.NBT.A.1:** Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones.
 - **CCSS.MATH.CONTENT.2.NBT.A.2:** Count within 1000; skip-count by 5s, 10s, and 100s.
 - **CCSS.MATH.PRACTICE.MP7:** Look for and make use of structure (sorting and ordering numbers).
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Lesson Title: AI Voice Assistant & Number Sorting

Objective:

By the end of this lesson, students will be able to:

1. Organize numbers in order from smallest to largest.
 2. Understand how AI uses sorting to help organize information.
 3. Use the **Elementary School AI Voice Assistant** to explore number patterns and sorting.
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Materials Needed:

- ✓ Device with access to the **Elementary School AI Voice Assistant**
 - ✓ Number cards (1-100, 3-digit numbers for advanced learners)
 - ✓ Small objects (counters, cubes) for hands-on sorting
 - ✓ Whiteboard or chart paper and markers
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Lesson Structure:

1. Introduction (10 minutes)



Teacher-Led Discussion:

- Begin with a **real-life sorting example**: “How do we put things in order in real life?” (e.g., lining up in order of height, sorting groceries by size, putting books in order on a shelf).
 - Explain that **AI, or Artificial Intelligence, helps sort things too!**
 - Show a **simple number set**: 4, 9, 1, 7. Ask: “How can we put these in order from smallest to largest?”
 - Introduce the **AI Voice Assistant** and explain that **AI helps sort and organize numbers** just like we do.
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2. Activity (15 minutes)



Part 1: Sorting with the AI Voice Assistant

- Open the **Elementary School AI Voice Assistant** on a device.
- Ask: “Give me five random numbers between 1 and 100.” Write them on the board.
- Ask students to **sort the numbers from smallest to largest**.
- Check their answer by asking the AI: “Now, sort these numbers in order.”
- Let students take turns **generating and sorting different number sets** using the AI.

👁️ Part 2: Hands-on Sorting Practice

- Hand out **number cards (1-100)** to student pairs.
 - Have students **draw five numbers** and **arrange them from smallest to largest**.
 - Check their work by **having them ask the AI** to sort their numbers and compare answers.
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3. Discussion & Reflection (10 minutes)

Guided Class Discussion:

- Ask: “*Why is sorting important?*” (e.g., in math, in real life, in technology).
- Discuss how AI helps organize numbers in:
 - **Calendars** (putting dates in order).
 - **Shopping apps** (sorting prices from low to high).
 - **Weather apps** (sorting temperatures from hottest to coldest).

Closing Activity:

- Have students **write or draw a real-life example** of sorting.
 - Exit question: “*How do you think AI knows how to sort things?*”
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Assessment:

- ✓ Observe students as they sort numbers.
 - ✓ Ask guiding questions to check understanding:
 - “How do you know which number is the smallest?”
 - “What strategy did you use to sort your numbers?”
 - ✓ Use students' **sorting work and AI interactions** as informal assessments.
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Extension Activities:

For Early Finishers:

- Ask the AI: “*Give me five three-digit numbers.*” Have students **sort them from smallest to largest**.
 - 🔍 **For Extra Challenge:**
 - Introduce **skip-counting sorting** (e.g., AI generates numbers by 5s, 10s, or 100s, and students arrange them correctly).
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By integrating the **AI voice assistant**, students **actively engage in sorting and organizing numbers**, just like AI does in real-world applications! 🎉🚀