Casio fx-115ES Plus

Scientific Calculators

Mid-Valley
STEM-CTE HUB

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Casio fx-115ES Plus scientific calculators

The fx-115ES Plus Calculator STEAM Kit includes 10 scientific calculators that empower students to explore math and science with greater depth and confidence. This dual-line calculator supports a range of operations including fractions, exponents, scientific notation, and statistics, making it ideal for middle and high school students working on real-world data, lab analysis, and problem-solving tasks. The kit promotes mathematical fluency and precision while supporting inquiry-based learning across STEM disciplines.

Grade Level

6^{th} - 12^{th}

Group Size

1 - 2 students per calculator

Content of Kits

Components

- 10 Casio fx-115ES Plus scientific calculators

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Usage

Getting Started

1. **Distribute and Label Calculators -** Assign each calculator a number with a small label or sticker so it's easier to track and return after use.

2. **Review Key Functions Together -** Walk students through core features: fraction inputs, exponents, parentheses, and switching between standard and scientific notation.

3. **Model a Sample Problem -** Use a projector or whiteboard to show how to solve a sample multi-step problem using the calculator.

4. **Use Paired Practice to Explore Features -** Let students work in pairs to try calculator-based math challenges or lab data problems, supporting peer learning.

5. **Encourage "Button Exploration" -** Allow 5–10 minutes of guided free exploration so students can press buttons, recall past entries, and discover shortcuts safely.

Storage

- Replace the covers over the top of the calculators before storing them in the storage bin provided.
- At the end of class periods be sure all calculators have been returned to the storage bin.
- Store in a dry temperature-controlled space.

Learning Objectives

- Develop fluency with scientific and mathematical notation, operations, and order of operations.
- Use a scientific calculator to solve real-world and multi-step STEM problems.
- Interpret calculator outputs to analyze data and identify trends.
- Build confidence in using digital tools for independent and group-based problem-solving.
- Strengthen connections between abstract math and applied science through structured inquiry.

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Resources and Accessibility

Safety Guidelines

- **Keep Calculators Away from Liquids -** Remind students not to use calculators near water or beverages to prevent damage.
- **Use Light Pressure on Keys -** Avoid pressing keys too hard or using sharp objects to press buttons, which can damage the keypad.
- **Clean with Caution -** If cleaning is needed, use a lightly dampened cloth—never submerge the calculator or use spray cleaners directly.

Accessibility

- **Pair Students for Support -** Allow students to work in pairs or small groups so those with motor or cognitive challenges can receive assistance while remaining active participants.
- **Simplify Instructions -** Break multi-step problems into single steps with clear, verbal, or visual supports for students who benefit from chunked instructions.

Library Catalog

Library Resources

Feedback

QR to feedback survey