STEM 360 VOLUNTEER GUIDE

The STEM 360 Experience introduces students to the wide range of STEM-connected careers within the trades by immersing them in an interactive, team-based environment focused on real-world supply chains. In this 20-minute activity, students explore six key categories—from ingredients to delivery—while working in teams to answer questions, complete challenges, and discover how many different jobs contribute to everyday products like pizza.

Before the session begins, **please review**:

- **STEM 360 Volunteer Guide**
- **Challenge Setup**
- **Category Wheel**
- **Stream Deck Controls and Reset Process**

Device Preparation

Before students arrive:

- Turn on monitors (they should normally already be on, but power them on if needed)
- Power on the Geekom computer.
- The Stream Deck will power on automatically with the computer.
- Allow a few minutes for startup.
- If a Stream Deck button makes a “ping” sound, the system is not ready yet.

On the tablet:

- Open Chrome.
- Navigate to wheelofnames.com.
- Open the menu (☰) and select Open.
- Choose: Open local file → On my iPad → Chrome → Stem360.json.
- Confirm the STEM360 category wheel is loaded.
- Test Stream Deck buttons and confirm the system reset is working.

Instructions to Read Aloud (Bolded Sections)

Welcome to STEM 360! Today, we're going to explore how STEM connects to careers in the skilled trades, even in places you might not expect. Can anyone tell me what STEM stands for? (Science, Technology, Engineering, and Math)

As part of today's experience, you'll work as a team to complete challenges related to real-world supply chains. Your goal is to earn points by answering questions correctly and working together.

(Start intro video by pressing **[Intro Video]** button on right-side *Stream Deck* and direct attention to the correct screen)

You'll be exploring six different supply chain categories and identifying trade careers connected to each one. Think about how many people and jobs it takes to create something as simple as a pizza!

Use the pull-up banners to highlight each of the 6 categories in the supply chain.

This is a team challenge. You will answer multiple-choice questions to earn points. Correct answers add points, and incorrect answers will reduce your score, so make sure to work together before making a choice.

Each team will receive a different supply chain category. When I say "3-2-1 Start," press the start button and begin your challenge. You will have 4 minutes to complete as many questions as possible.

Student Activity

- Have a student on one of the teams tap the wheel on tablet to begin spin.
- Make a note of the category
- Have a student on the other team tap the wheel on tablet to begin spin.
- Make a note of the category.
- Share tutorial on both screens.
    - *Ignore the 3-2-1-Go* language at the end.
- For each team, tap the proper category button on *Stream Desk*
    - Category image will appear on their screen
- Have a student from each group at each Stream Deck. Have them ready to start the challenge. After volunteer counts down, students press **[Start]**. (They each get 4 minutes regardless even if a little off.)
    - Countdown "3-2-1-Start"
- Re-spin for a new category for each team and play again.
- Select **[System Reset]** to prepare for the next group.

Wrap-Up Discussion

- **What trade careers did you see that are connected to STEM?**
    - Farmers (use science for crops, weather, and soil)
    - Equipment operators (requires technology and mechanical skills)
    - Food processing technicians
    - Dairy/cheese makers
    - Meat processing workers
    - Restaurant: pizza maker, line cook, pasta cook
    - Kitchen: Store workers, cooks, production associates
    - Order & Delivery: Delivery drivers, dispatchers

- **These careers are connected to STEM because they use:**
    - Science (like food production and agriculture)
    - Technology (machines, tools, and systems)
    - Engineering (designing and fixing systems)
    - Math (measuring, tracking, and problem-solving)

Trade careers connected to STEM include jobs like electricians, truck drivers, mechanics, cooks, warehouse technicians, and lineworkers. They use science, technology, engineering, and math every day to keep systems running and deliver products to customers.