Tillman Elementary School STEM Outreach Invitation

Tillman Elementary School is excited about our new STEM Outreach program, part of a broader initiative around science, technology, math, and engineering. Our goal with STEM Outreach is to inspire curiosity and excitement about science among our students while also providing real life examples about how science and math are part of our daily lives. We're reaching out to you and others in our community to participate in this project, inviting individuals from all walks of life to record a short video (between 30 seconds and three minutes) that highlights how science is used in their work and/or daily lives.

Purpose of the Video

Our goal is simple: to show students that science isn't just something they learn about in school. We want students to understand that science is all around us, in ways big and small, impacting everything we do. Whether it's through your job, hobbies, or daily routines, we'd love for you to share how science touches your life.

How These Videos Will Be Used

Your video will become a valuable resource for our STEM instruction, shared in multiple ways to reach and inspire students. Here's how we plan to use the videos:

- **Morning Announcements**: Selected videos may be shown during morning announcements to introduce students to a variety of science applications in their community.
- **Friday Videos:** Some videos may be included in our weekly compilation videos that students watch in their classrooms.
- **STEM Outreach Library**: We plan to create a catalog of videos accessible to teachers and students, as needed, to support their curriculum. Teachers can use these to complement lessons, or students can explore the catalog independently to discover how science is part of everyday life in their community.
- **STEM Events and Classroom Activities**: Videos may also be highlighted during STEM-related events, activities, or special classroom discussions, allowing students to learn directly from community members like you.

Video Guide

In your video, please consider covering the following points:

1. **Introduce Yourself**: Share your name and a little about who you are.
2. **What Do You Do?**: Briefly talk about your job, hobbies, or daily activities.
3. **How Science is Involved**: Explain how science plays a role in your work or daily life. This can be as technical or as simple as you'd like. Feel free to use props or record yourself in a particular setting, if appropriate, but this certainly isn't a requirement.

Ideas to Get You Started

Below are several examples that might help spark ideas for your video:

- **Chef/Baker**: Talk about how chemistry is involved in baking and cooking, from measuring ingredients to understanding how heat changes food.
- **Gardener/Landscaper**: Discuss how plants grow, the role of sunlight and water, and how you choose the right plants for different environments.
- **Mechanic**: Explain how engines work, the physics of movement, and the materials used to make strong and durable vehicles.
- **Nurse/Doctor**: Share how science helps you understand how the human body works, how diseases spread, or the importance of hygiene.
- **Plumber**: Talk about how understanding water pressure and flow helps ensure systems run smoothly, or how chemistry is involved when selecting the right materials to prevent corrosion.
- **Architect/Construction Worker**: Discuss building materials, the science of structures, and why understanding physics is key to making strong buildings.
- **Parent/Caregiver**: Talk about everyday science at home – from teaching kids about the seasons, cooking, cleaning, using simple machines, to doing simple experiments with children.
- **Engineer**: Describe the principles behind your designs or how you solve problems by applying concepts like electricity, force, or motion.
- **Farmer**: Talk about plant and animal science, soil composition, erosion, or water cycles that are part of your everyday work.
- **Teacher**: Explain how you bring science into the classroom or integrate it into other subjects.
- **Athlete/Fitness Coach**: Share how understanding the human body, nutrition, and exercise principles is crucial to performance.
- **Artist**: Talk about how materials, colors, and light influence your work, or how you use math and science for proportions and structure.
- **HVAC Specialist**: Explain how you use thermodynamics to heat and cool spaces efficiently and share how understanding air pressure and flow helps systems work properly.
- **IT Specialist/Programmer**: Explain the science behind computers, coding, or how technology is part of our daily lives.
- **Meteorologist/Weather Fan**: Share the basics of weather patterns, climate, and why knowing about the weather is important for everyone.

Feel free to add your unique perspective and make it personal. The more authentic, the better!

Submission Details

Once your video is ready, please email it to bryan.painter@kirkwoodschools.org or upload it to https://tinyurl.com/STEM-videos using the link or QR code below . We hope to start using videos with our students soon, but we'll take submissions for our catalog at any time.

Thank you for helping us bring the community into our classroom and showing our students that science is truly everywhere. Your contribution will have a lasting impact on their learning and curiosity.

Upload Link

Sincerely,

Bryan Painter **Max Hoover**

Tillman Principals & Science Enthusiasts
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