



**Mister C**



Conceived & Performed by Kevin Cornell

# Full STEAM Ahead **Live!**

## The World in Motion - Resource Guide



Online media to support each activity sheet



Engage, Embrace and Extend STEAM Learning



Easy to complete activities for everyone to enjoy



Mister C

## ABOUT THE SHOW

Are you ready for some hair-raising science, toe-tapping music and mind-blowing media? Join Mister C for another fun day of learning together in the lab! Mister C is no stranger to finding exciting and engaging ways to explore STEAM (Science, Technology, Engineering, Art, and Math) in our everyday lives. Full STEAM Ahead Live will have everyone singing, dancing and learning to the tune of science. Students and teachers will be amazed with this fun and educational series as Mister C uses humor, media and the engineering design process to make the ordinary extraordinary!

## WHO IS MISTER C?

Mister C is not your ordinary educator! As an 18 year education veteran, Mister C has spent time as a classroom teacher, principal, curriculum specialist and district administrator. His specialty is knowing how to inspire and engage learners of all ages using video, music and live presentations.

Mister C is the Emmy nominated producer and Emmy nominated host of Full STEAM Ahead, which airs on PBS Stations across the US. He is also the creator of the YouTube channel LearningScienceisFun with 10K subscribers. Through these platforms, millions of learners have had the opportunity to enjoy learning to a different beat with silly songs, exciting experiments and dazzling demonstrations.

Whether online, on-air or live on stage, Mister C's high energy and infectious attitude will have you out of your seats, having fun learning together!



### TEACHER FOCUSED

Activities designed to kickstart critical thinking and minds-on learning.



### STUDENT-DRIVEN

Fun activities to introduce students to STEAM Learning.



### EDUCATOR CREATED

Mister C created these learning experiences to foster critical thinking and a love for learning.



### SHARE YOUR LEARNING

Snap a photo and share it online. Use #MisterCFullSTEAMAhead



@originalmisterc



@learningscienceisfun







Mister C

# Pre-show Conversation Starters

1. Why is it so much harder for vehicles to drive on snow or ice?
2. What type of scientists study motion and Newton's Law?
3. Could you design an experiment that allows you to measure the acceleration of a car?



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# Motion Vocabulary

Acceleration – the rate of change of velocity per unit of time

Displacement – the change in position of an object

Distance – the total length of the path traveled by an object

Force – a push or pull that can cause an object to accelerate

Gravity – the force that attracts a body toward the center of the earth, or toward any massive astronomical body

Speed – the rate at which an object is moving

Velocity – the rate of change of position

Work – the transfer of energy to an object through the application of force

# WHO IS MISTER C?

Kevin Cornell, Ed.S. aka Mister C, has been an educator for 18 years and knows the importance of engaging children with powerful learning experiences in and out of the classroom! Kevin's character, Mister C, is no

# Lab Safety

Learning is fun for everyone and, if presented in the correct way, can transform attitudes about science. - Report all accidents, injuries, and breakage of glass or equipment to your instructor immediately.

In addition to producing Ohio Valley Regional Emmy Nominated PBS programming, you can find Mister C creating learning experiences for his YouTube Channel LearningScienceisFun. One of his biggest passions is to integrate educational concepts with his love for music!

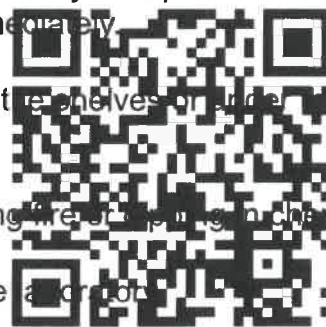
- Long hair (chin-length or longer) must be tied back to avoid catching fire or spilling on chemicals.

You can find his science videos, songs and PBS clips at the following links. To learn more please visit:

- Learn the location of the fire extinguisher, eye wash station, first aid kit, and safety shower. <https://www.youtube.com/c/learningscienceisfun>

<https://www.youtube.com/mistercfullsteamahead>

- Walk calmly in the lab without running to avoid bumping into materials or one another. [www.speakersandbeakers.com](http://www.speakersandbeakers.com)





Mister C

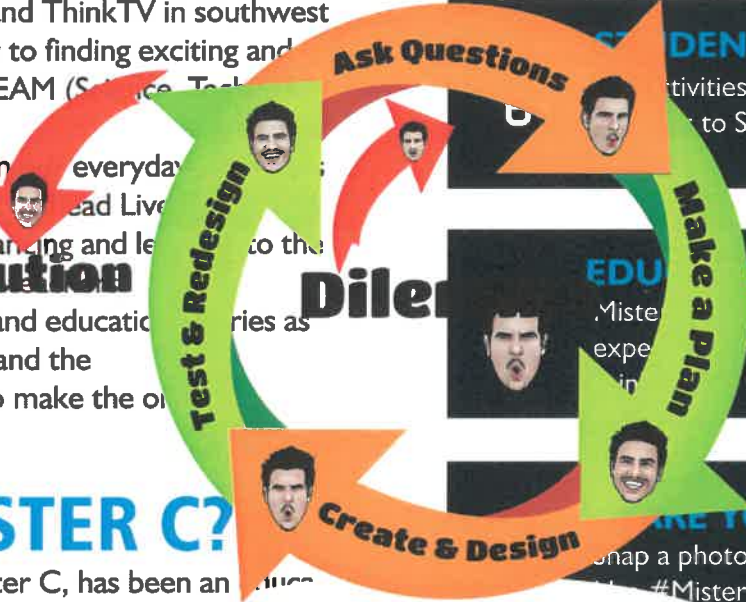
# Engineering Design Process

## ABOUT THE SHOW

**THE ENGINEERING DESIGN PROCESS (EDP)** is a flexible and mind-blowing media that Mister C and students make the EDP unique in the lab! As the creator and host of Full STEAM Ahead, a new show on PBS Kids' member stations CET and ThinkTV in southwest Ohio, Mister C is no stranger to finding exciting and engaging ways to explore STEAM (Science, Technology, Engineering, Art, and Math) in everyday life. The world premiere of Full STEAM Ahead Live! will have everyone singing, dancing and learning to the tune of science. Students will be amazed with this fun and educational series as Mister C uses humor, media and the engineering design process to make the ordinary extraordinary!

**Solution**

**Dilemma**



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**DILEMMA:** A powerful learning experience.

What is the problem? Have others approached it? How? What are your constraints?

**ASK QUESTIONS:** A fun and fun way to connect with the world.

What are the possible solutions? Brainstorm ideas individually or with your team.

**MAKE A PLAN:** Select one of your ideas and, if presented in the correct way, can transform attitudes about science.

**CREATE & DESIGN:** Identify your design and determine what materials will be needed to build your design.

**TEST & REDESIGN:** Working Science is fun. One of the biggest passions is to integrate educational concepts with his love for music!

**FIND A SOLUTION:** What works? What doesn't? How can you improve your design. Make adjustments to your design and make it better. Then test it again.

https://www.youtube.com/c/learningscienceisfun

https://www.youtube.com/mistercfullsteamhead

Test, redesign and be persistent planning if needed until you find a solution.



@learningscienceisfun





# Full STEAM Ahead *Live!*



## DIY HOVER CRAFTS

### TOPIC: AIR

Air is EVERYWHERE! Air is the invisible gaseous substance surrounding the earth and can also be used to create a cushion of air to help move your hovercraft across smooth surfaces.

### MATERIALS:

- Blank CD
- Water bottle cap (push cap)
- Balloons
- Hot glue gun
- Clean work space and a parent helper

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### **TOPIC SUMMARY:**

Objects in motion stay in motion and this centripetal force board defies gravity!

### **MATERIALS:**

- Sturdy cardboard
- Scissors
- String or yarn
- Plastic cup
- Pennies



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## DIY EGG DROP TOWER

### TOPIC SUMMARY:

Explore gravity and inertia with this simple egg-speriment! You'll need skills, patience and maybe even a little luck!

### MATERIALS:

- Tall glass with water
- Food coloring
- Plastic plate
- Paper towel or toilet paper roll
- Eggs
- An adult helper

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