

# - STUDY GUIDE -

## STEVE TRASH SCIENCE - LIVE - BUS IN - SHOW

### GENERAL SHOW OBJECTIVES -

**Objective #1** – Understand the difference between Magic and Science.

**Objective #2** - Understand exactly what science is and why it has value.

**Objective #3** - Understand the scientific method and its usefulness.

**Objective #4** - Having an amazingly rockin' good time!

### STUDENTS WILL LEARN -

Science and Magic Tricks look remarkably similar. But they are very different. In this show Steve focuses on making STEAM - SCIENCE TECHNOLOGY ENGINEERING ART & MATH - fun by illustrating the difference between science and magic. He actually has a passion for both! Students will understand the difference between them AND get to explore how the scientific method makes us better thinkers and problem solvers as well.

### VOCABULARY -

**Magic** - creating the **illusion** that you can defy the laws of nature.

**Science** - the study of how the natural world works.

**Natural Resource** - Something that is found in nature and can be used by people. Earth's natural resources include light, air, water, plants, animals, soil, stone, minerals, and fossil fuels. People need some natural resources to live. They use others to make their lives better.

**The Scientific Method** - a process or method of research. A problem is identified, information about the problem is gathered, a hypothesis or question is formulated from the information, and the hypothesis is put to test with an experiment to prove or disprove its validity. That information is then shared.



## **IDEAS FOR DISCUSSION -**

Please review these concepts and vocabulary words with your students. They cover ideas that are directly and indirectly addressed in the **STEVE TRASH SCIENCE - LIVE - SHOW**.

- How can we use The Scientific Method in our daily lives to solve problems?
- Of all the planets in our solar system, which planets can support carbon-based lifeforms?
- How is recycling household waste similar to the way our environment recycles water, dirt, and air?
- What are some of the differences between science and magic? How does magic APPEAR to violate natural laws?
- Why does good scientific work require both observation and experimentation?

## **TEACHER RESOURCES -**

Steve Trash has lots of cool resources that teachers (grades 1-5) can use in the classroom on his web site. [www.stevetrash.com](http://www.stevetrash.com)

## **ROCKIN' ECO HERO - STEVE TRASH**

Steve Trash is the star of his own nationwide - PBS kids science show - **STEVE TRASH SCIENCE**. Want to watch? Go to official PBS site. <https://www.pbs.org/show/steve-trash-science/> and check it out or check your local PBS listings.

He was recently honored with the **EEAA'S - BEST ENVIRONMENTAL EDUCATION PROGRAM OF THE YEAR AWARD** and has also won the **OUTSTANDING RC&D PROGRAM** award and **BEST ENVIRONMENTAL SCIENCE CURRICULUM**.

He's appeared on many national and international **TV** shows including - **CBS THIS MORNING, ESPN OUTDOORS, VH1 TOP 20 COUNTDOWN** and was recently interviewed on Levar Burton's **READING RAINBOW**.

He's been featured in the **NEW YORK TIMES**, the **LOS ANGELES TIMES**, **FAST COMPANY MAGAZINE**, and he's even been on the cover of the kids' magazine, **THE WEEKLY READER**.

Always attempting to "walk the talk", Steve lives in an energy efficient, earth birmed home with a 21 panel solar PV array, in beautiful downtown Frog Pond, Alabama. Here's a link to a story about our home.

<https://www.stevetrash.com/bio>

Steve Trash - Rockin' Eco Hero [www.stevetrash.com](http://www.stevetrash.com)