

## TEKS for 5<sup>th</sup> Grade Science Program

**4.7 Earth and Space.** The student knows that Earth consists of useful resources and its surface is constantly changing. The student is expected to:

(A) examine properties of soils, including color and texture, capacity to retain water, and ability to support the growth of plants; (Supporting Standard)

(C) identify and classify Earth's renewable resources, including air, plants, water, and animals; and non-renewable resources, including coal oil, and natural gas; and the importance of conservation. (Supporting Standard)

**4.8 Earth and Space.** The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system. The student is expected to:

(B) describe and illustrate the continuous movement of water above and on the surface of Earth through the water cycle and explain the role of the Sun as a major source of energy in this process (Supporting Standard)

**5.2 Scientific investigation and reasoning.** The student uses scientific methods during laboratory and outdoor investigations. The student is expected to:

(A) describe, plan, and implement simple experimental investigations testing one variable

(B) ask well-defined questions, formulate testable hypotheses, and select and used appropriate equipment and technology

(C) collect information by detailed observations and accurate measuring  
(D) analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence

(F) communicate valid conclusions in both written and verbal forms

**5.6 Force, motion, and energy.** The student knows that energy occurs in many forms and can be observed in cycles, patterns, and systems. The student is expected to:

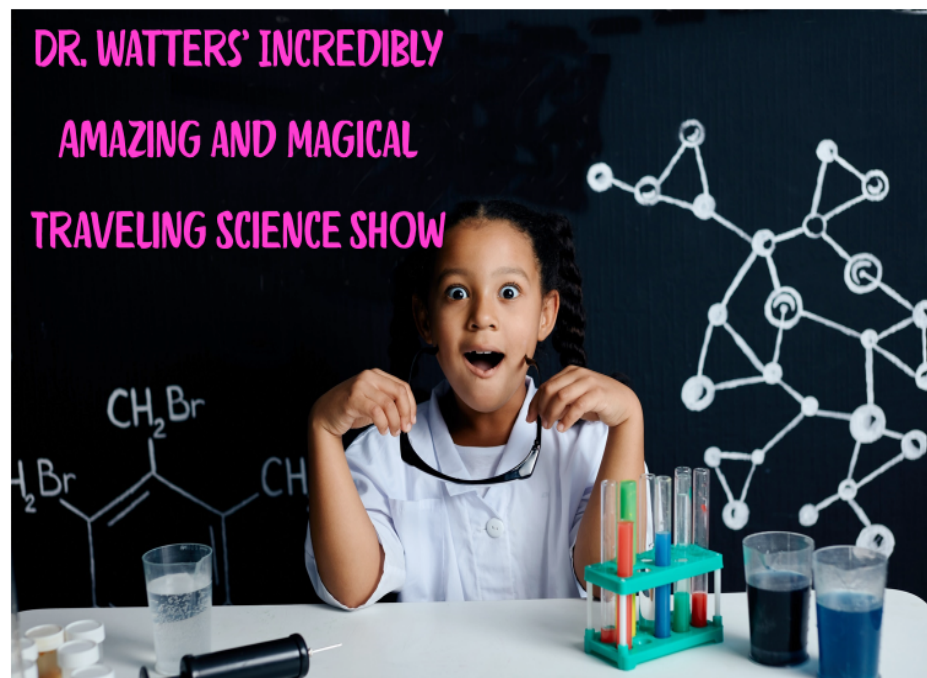
(C) demonstrate that light travels in a straight line until it strikes an object or travels through one medium to another and demonstrate that light can be reflected such as the use of mirrors or other shiny surfaces and refracted such as the appearance of an object when observed through water; (Readiness Standard)

**5.8 Earth and Space.** The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system. The student is expected to:

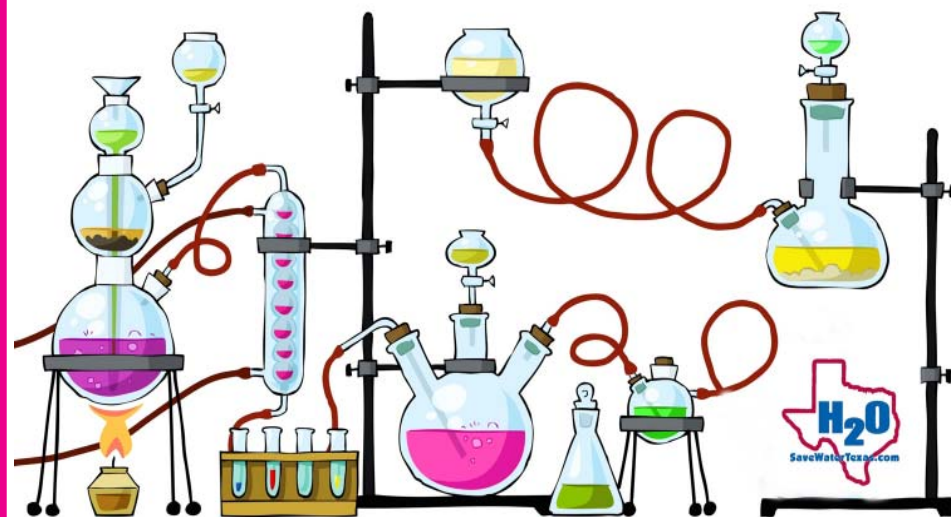
(B) explain how the Sun and the ocean interact in the water cycle (Supporting Standard)

(C) demonstrate that Earth rotates on its axis once approximately every 24 hours causing the day/night cycle and the apparent movement of the Sun across the sky (Readiness Standard)

To schedule this exciting "edu-tainment" program for your students, please contact:  
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## 5<sup>th</sup> GRADE SCIENCE CLASSROOM EXPERIENCE



# DR. WATTER'S INCREDIBLY AMAZING AND MAGICAL TRAVELING SCIENCE SHOW



Created and developed by **Save Water Texas** -- this hands-on program focuses on the importance of water in our everyday lives. Understanding the scientific concepts related to water is an important foundation for success on the 5th grade Science **STAAR** test. This interactive program includes both *readiness and supporting* **TEKS** that are STAAR tested in Science.

The Save Water Texas team of experienced educators boldly transport students on an amazing, entertaining, and mystical adventure by challenging the youngsters to discover the science behind some dramatic demonstrations. The fast-paced show involves everyone present in interactive experiences -- *including the teachers!*

This assembly is designed for 5<sup>th</sup> grade students – and is presented to all the school's classes at one time with teachers present. All of the necessary supplies and equipment for the learning adventure are provided. The program is presented in the gym or cafeteria with tables down for the students to be seated during the 'show' which lasts approximately an hour. Setting up the displays takes 30 minutes with an additional 30 minutes take-down time at the conclusion. (Setup and take-down can usually be accomplished around food service times on most campuses.)



## EVERY LIVING THING NEEDS WATER TO SURVIVE!

The Traveling Science Show -- as well as supporting student and teacher materials -- is sponsored and paid for by local water providers **at no cost to educators and schools**. Having adequate water supplies for the future is a global issue and one that will impact today's youngsters throughout their lives, when they are adults with families of their own.

### Topics addressed in the program include:

- ◆ Renewable and non-renewable resources
- ◆ The water cycle
- ◆ Physical and chemical properties of matter
- ◆ Properties of light
- ◆ Rotating and revolving of earth, sun and moon system
- ◆ The solar system

### Support program materials for teachers:

- ◆ Teachers Resource Guide on Flash Drive
- ◆ Review questions related to program topics
- ◆ Water Cycle interactive video CD
- ◆ Xeriscape brochure (printed copy)

**Each student will receive a packet to take home.**

