

HERE ARE SOME OF THE TOPICS WE'RE PLANNING FOR 2017-2018

BIOLOGY

WHEN GUT BACTERIA HIJACK THE BRAIN: Scientists were shocked to learn that spinal cord injuries can alter gut bacteria. Even more surprising? Probiotics could aid in recovery from the injuries.

Science and Engineering Practices: Constructing Explanations and Designing Solutions

Disciplinary Core Ideas: LS1.D, Information Processing

Cross-Cutting Concepts: Cause and Effect—Mechanism and Explanation

WHEN FIRE STRIKES: Wildfires can ravage communities and change people's lives forever. But what about the four-legged victims? Find out how animals deal with blazes.

Science and Engineering Practices: Obtaining, Evaluating, and Communicating Information

Disciplinary Core Ideas: LS2.C, Ecosystem Dynamics, Functioning, and Resilience

Cross-Cutting Concepts: Cause and Effect—Mechanism and Explanation

EARTH SCIENCE

ORIGAMI ASTRONOMY: Discover why astronomers turned to origami to solve design challenges while building the new James Webb Space Telescope.

Science and Engineering Practices: Constructing Explanations and Designing Solutions

Disciplinary Core Ideas: ESS1.A, The Universe and Its Stars

Cross-Cutting Concepts: Scale, Proportion, and Quantity

NOISY NORTH: Climate change is bringing something unexpected to the Arctic Ocean: noise pollution! Find out why.

Science and Engineering Practices: Developing and Using Models

Disciplinary Core Ideas: ESS2.D, Weather and Climate

Cross-Cutting Concepts: Energy and Matter: Flows, Cycles, and Conservation

CHEMISTRY

NAME THAT ELEMENT! Use our clues to sleuth out a mystery element. How many clues will YOU need to figure out the featured element?

Science and Engineering Practices: Obtaining, Evaluating, and Communicating Information

Disciplinary Core Ideas: PS1.B, Chemical Reactions

Cross-Cutting Concepts: Patterns

WHY DOES RAIN SMELL? Spring rains often fill the air with a pleasant scent unlike any other. Discover the cause of the unmistakable odor.

Science and Engineering Practices: Engaging in Argument from Evidence

Disciplinary Core Ideas: PS1.B, Chemical Reactions

Cross-Cutting Concepts: Cause and Effect—Mechanism and Explanation

PHYSICS

SPAIN'S TOWERING TRADITION: For centuries, teams in Spain have been competing to build the tallest human tower. How do they pull off this feat?

Science and Engineering Practices: Planning and Carrying Out Investigations

Disciplinary Core Ideas: PS2.C, Stability and Instability in Physical Systems

Cross-Cutting Concepts: Structure and Function

WHAT IS A KILOGRAM, ANYWAY? If you think a kilogram is a kilogram, think again! Scientists are considering changing the definition of this unit—and others.

Science and Engineering Practices: Using Mathematics and Computational Thinking

Disciplinary Core Ideas: ETS2.B, Influence of Engineering, Technology, and Science on Society and the Natural World

Cross-Cutting Concepts: Scale, Proportion, and Quantity

ENGINEERING

Plus, an all-engineering issue featuring the most brilliant student engineers!