



2020-21 STEAM Education for Grades 2-12

Daily Dose of Science- VIRTUAL MISSION MENU

Co-Design the most educational and entertaining STEAM program of your choice with award-winning science educator Janet Ivey! See the **Mission Menu** below to learn more about topics you can choose from, which will stream live into your home or classroom via Zoom, Google Meet or on the video platform of your choice. Each mission is approximately 60 minutes and can serve a maximum of 60 students.

- I. **Mission : Mission to Mars Perseverance/Ingenuity**
Science Lesson: Space Agriculture
Activity: Build Your Own Mars Habitat

- II. **Mission : Exploring the Solar System**
Science Lesson: Math and Mapping the Stars
Activity: Solar System Scavenger Hunt or Paint Your Solar System

- III. **Mission : Engineering Challenge/Newton's Cradle**
Science Lessons: Math in Design and Origami in Space
Activity: Make Your Own Satellite or Solar Sail

- IV. **Mission : The Science of Coding and Robotics**
Science Lesson: Introduction to Coding and Tutorial on How to Use Scratch
Activity: Make Your Own Binary Bracelet or Make Your Own MoonBot

- V. **Mission : A Conversation with An Astronaut**
Science Lesson: The Right Stuff and what it takes to become an astronaut
Activity: Escape Room on the Space Station or Design Your Won Space Station

- VI. **Mission : Physics of Flight**
Science Lesson: Flight Simulations/How to Fly a Plane Virtually
Activity: Make Your Own Balsa-wood Plane

- VII. **Mission : Unsung Genius: Discovering the Heroines of Science**
Science Lesson: Female Pioneering Scientists
Activity: Write a Letter to Your Genius Self or Create a Zine about one of the Unsung Heroes/Heroines of Science

- VIII. **Mission : Write Your Science**
Science Lesson: Science Fiction Writing
Activity: Write Your Own Sci Fi Story or Create a Zine or graphic for your Sci-Fi Story

- IX. **Mission : Music and Space**
Science Lesson: How the Inspiration of Space has Created Symphonies, Songs and Movie and Televisions Themes!
Activity: Compose a Science Song or Write a Science Poem
- X. **Mission : For All Humankind: The Moon, Apollo and Artemis**
Science Lesson: One small step for man, one giant leap for mankind. What the Apollo missions did for technology and future space missions.
Activity: Make a lunar lander
- XI. **Mission : Viking Education and Preservation Project**
Science Lesson: Carl Sagan’s Dream—Can humankind voyage to the stars? The science and history of how these missions came to be.
Activity: Make Your Viking Rover



For pricing and more information, visit the [Daily Dose of Science](https://www.dailydoseofscience.org/) page at [TillesCenter.org](https://www.tillescenter.org/).

Questions? Contact Stephanie Turner, Director of Education & Outreach
516.299.2388. stephanie.turner@liu.edu