



Additional NGSS and CCSS standards for the "Capturing A Whisper From Space" Lab

**Common Core State Standards (CCSS)
Standards for Mathematical Practices**
.....

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure
- Look for and express regularity in repeated reasoning.

Next Generation Science Standards (NGSS)
.....

Scientific and Engineering Practices:

- Asking questions (for science) and defining problems (for engineering)
- Developing and using models
- Planning and carrying out investigations
- Analyzing and interpreting data
- Using mathematics and computational thinking
- Constructing explanations (for science) and designing solutions (for engineering)
- Engaging in argument from evidence
- Obtaining, evaluating, and communicating information

Disciplinary Core Ideas:

Physical Sciences

- PS1: Matter and its interactions
- PS2: Motion and stability: Forces and interactions
- PS3: Energy
- PS4: Waves and their applications in technologies for information transfer

Earth and Space Sciences

- ESS1: Earth's place in the universe
- ESS3: Earth and human activity

Engineering, Technology, and Applications of Science

- ETS1: Engineering design