My portfolio includes pieces of work that show **what I can do** using these **science and engineering practices**.

- Asking questions
- Developing and using models
- Planning and carrying out investigations
- Analyzing and interpreting data
- Using mathematics and computational thinking
- Constructing explanations
- Engaging in argument from evidence
- Obtaining, evaluating, and communicating information

My portfolio includes pieces of work that show **what I know** about these **disciplinary core ideas**.

- The solar system consists of the Sun and a collection of objects that are held in orbit around the Sun by the gravitational pull between them. The solar system and Earth’s Moon appear to have formed from similar processes, in which gravitational forces attracted bits of matter together. (ESS1.B, PS2.B)
- Day, night, seasons, and eclipses can be observed, described, predicted, and explained using solar system models. (ESS1.A, ESS1.B)
- Studying Earth’s features reveals its geologic history, including craters formed by impacts and changes to its subsystems. Earth could experience another catastrophic asteroid impact in the future, so engineers are developing technology that may be able to prevent this. (ESS1.C, ESS2.A, ESS3.B, ETS1.A)
- Scientists hunt the universe for evidence of water, such as identifiable patterns of land features or atmospheric gas, because water is considered essential for life. (ESS2.2, ESS2.4, PS4.B)
- Humans depend on Earth’s systems for many different resources. Typically, as human populations and consumption of natural resources increase, so do the negative impacts on Earth unless the activities and technologies involved are engineered otherwise. (ESS3.A, ESS3.C)

My portfolio includes pieces of work that shows **how I think** using these **crosscutting concepts**.

- Patterns
- Cause and effect
- Scale, proportion, and quantity
- Systems and system models
- Energy and matter
- Structure and function
- Stability and change