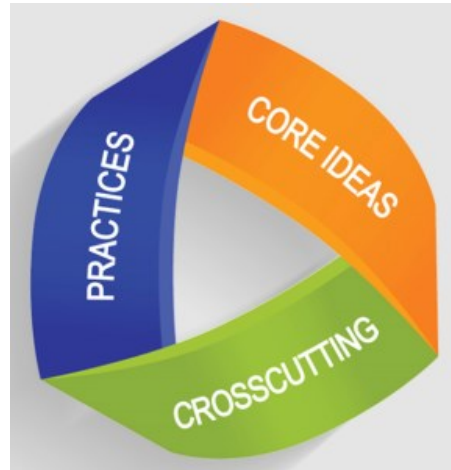


### What Students Do & How They Engage:

- Ask questions & define problems
- Develop and use models
- Plan and carry out investigations
- Analyze and interpret data
- Use mathematics and computational thinking
- Construct explanations and design solutions
- Engage in argument from evidence
- Obtain, evaluate and communicate information

## NGSS 3 Dimensions



### How Students Think & Connect Science:

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

### What Students Know:

#### *Physical Science*

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

#### *Life Science*

- From molecules to organisms: Structures and processes
- Ecosystems: Interactions, energy and dynamics
- Heredity: Inheritances and variation of traits
- Biological Evolution: Unity and diversity

#### *Earth and Space Science*

- Earth's place in the universe
- Earth's systems
- Earth and human activity

#### *Engineering, Technology and Application of Science*

- Engineering design
- Links among engineering, technology, science and society