Patterns
- Moon phases
- Monthly precipitation, San Francisco, United States and Perth, Australia
- Fibonacci sequence

Cause and effect
- Rachel and Alex juice story
- Population changes of predator and prey species over time
- Diagram of a Rube Goldberg machine

Scale, proportion and quantity
- Solar system and football field
- Statistically, conclusions based on a large sample size are more reliable than conclusions based on small sample size
- 4 females participants for every 1 male participant

Systems and system models
- United States Government
- Human circulatory system
- Water cycle

Energy and matter
- Trophic levels in an ecosystem
- Fire images
- E=mc²

Structure and function
- Predator and prey skulls
- The Academy’s Sustainable Design
- Bridges around the world

Stability and change
- Rock cycle diagram
- Insect life cycles
- Temperature and CO2 from Antarctic ice cores over the past 400,00 years