

## 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
- $E=mc^2$

## 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 CO<sub>2</sub> from Antarctic ice cores over the past 400,00 years