

Moon phases







waxing crescent



first quarter



waxing gibbous



full moon



waning gibbous



last quarter



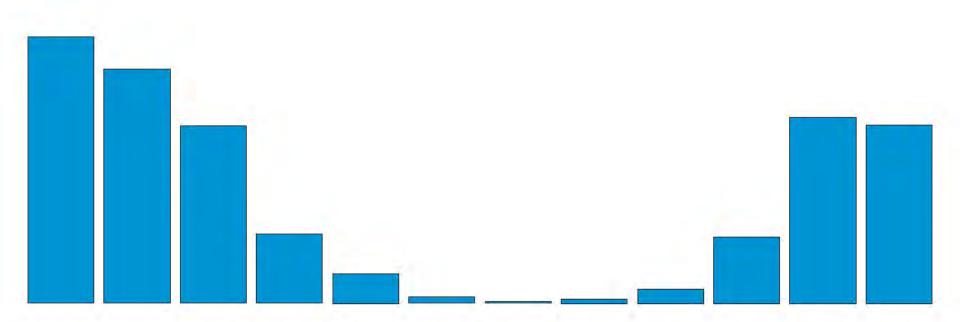
waning crescent



new moon

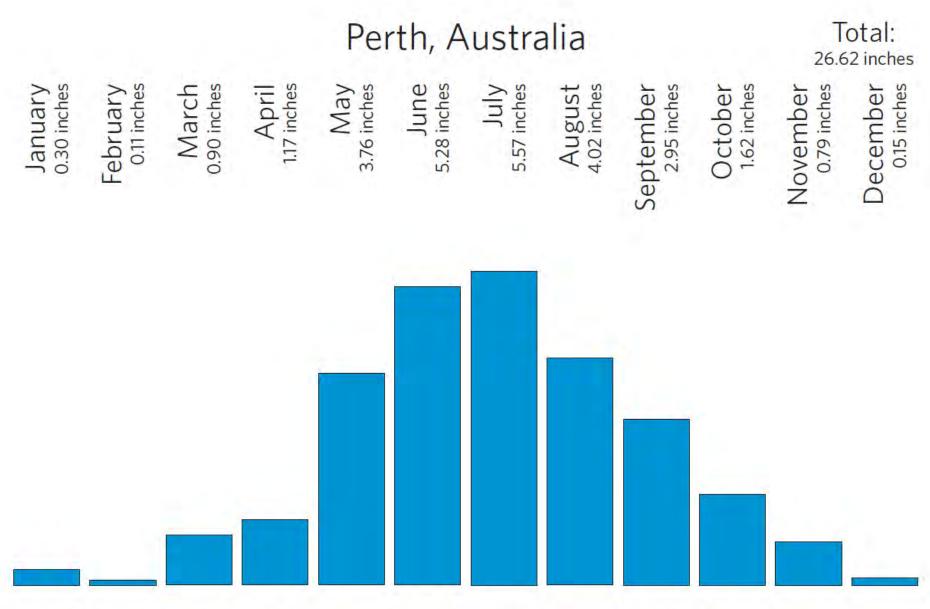






California Academy of Sciences





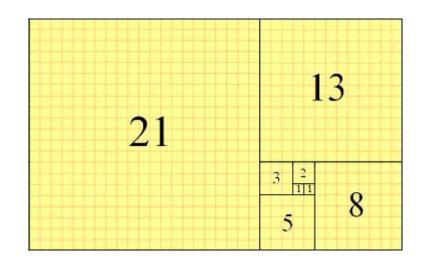
California Academy of Sciences



Fibonacci Sequence

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, ...

Each number in the sequence is the sum of the two numbers before it...

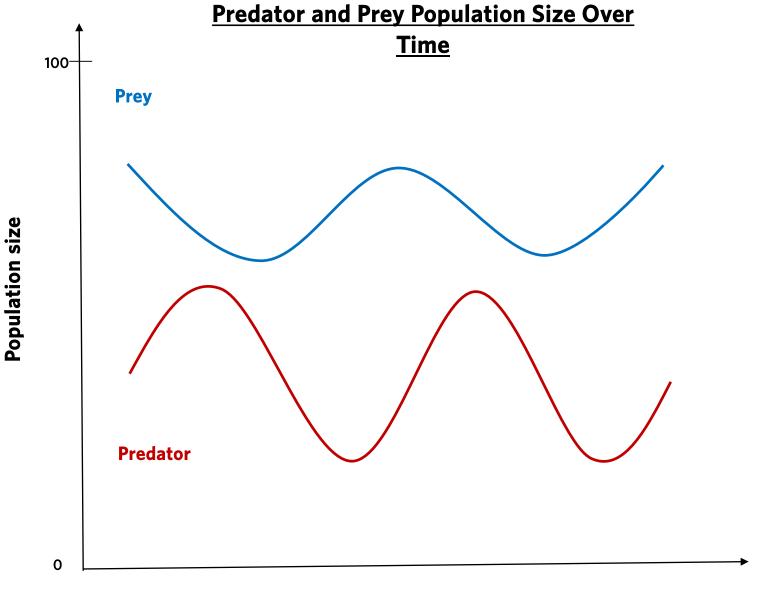




Rachel was so excited to see her best friend Alex back at school. Alex had been out sick with the flu the last couple days.

While the two friends were eating lunch together in the cafeteria, Alex offered Rachel a sip of his juice, because he knew it was her favorite flavor (orange!). But because Rachel shared Alex's drink, she got the flu a week later.



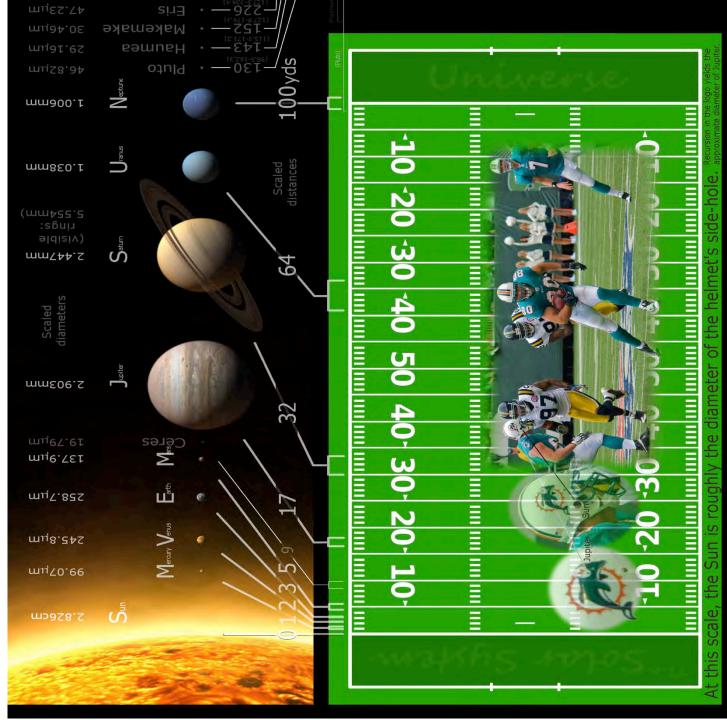


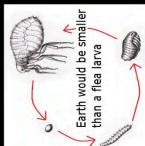
Time



Diagram of a Rube Goldberg machine

Self-Operating Napkin







golf bal







Statistically, conclusions based on a

large sample size

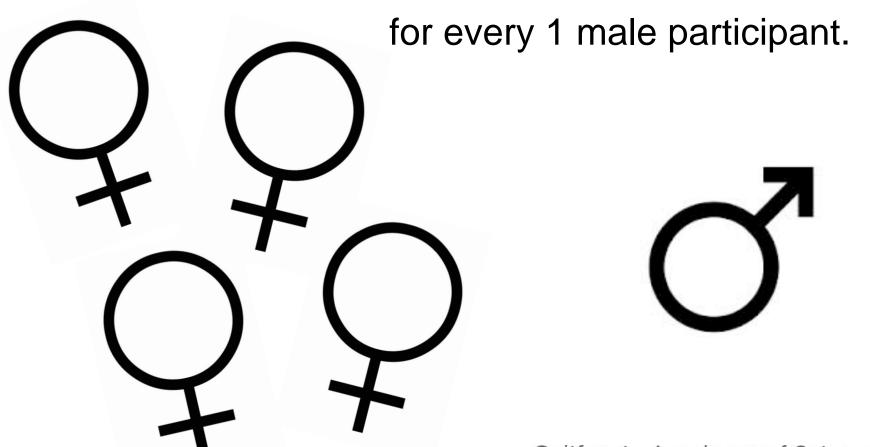
are more reliable than conclusions based on a

small sample size.



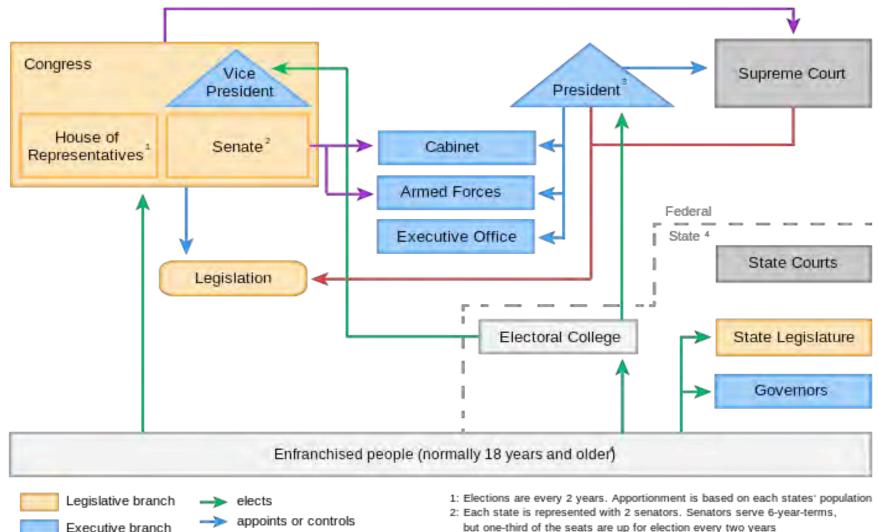
In today's workshop, there are approximately

4 females participants





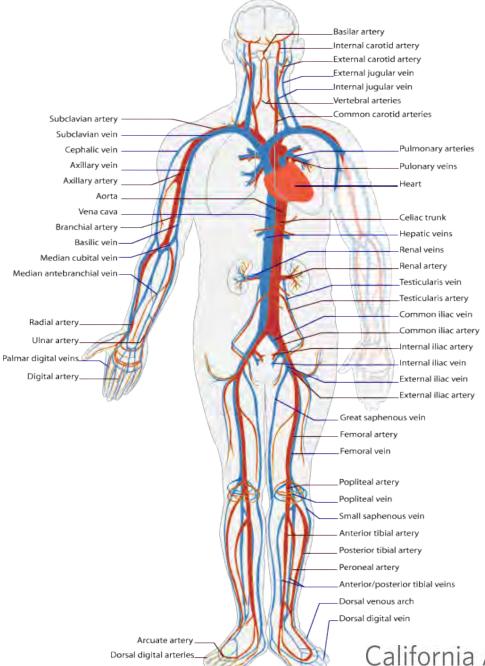
The United States Government



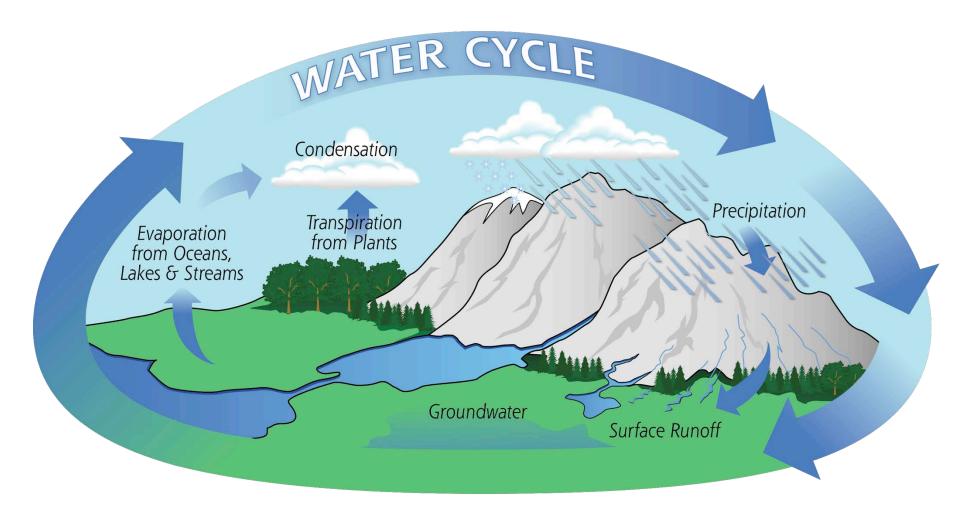
- Judicial branch
- veto-power / can repeal5
- approves

- but one-third of the seats are up for election every two years
- 3: Head of state and government, as well as commander-in-chief
- 4: The state levels can vary from state to state
- 5: Presidential vetos can be overridden by a two-thirds vote in both house. The Supreme Court can declare laws as unconstitutional and thereby repeal them



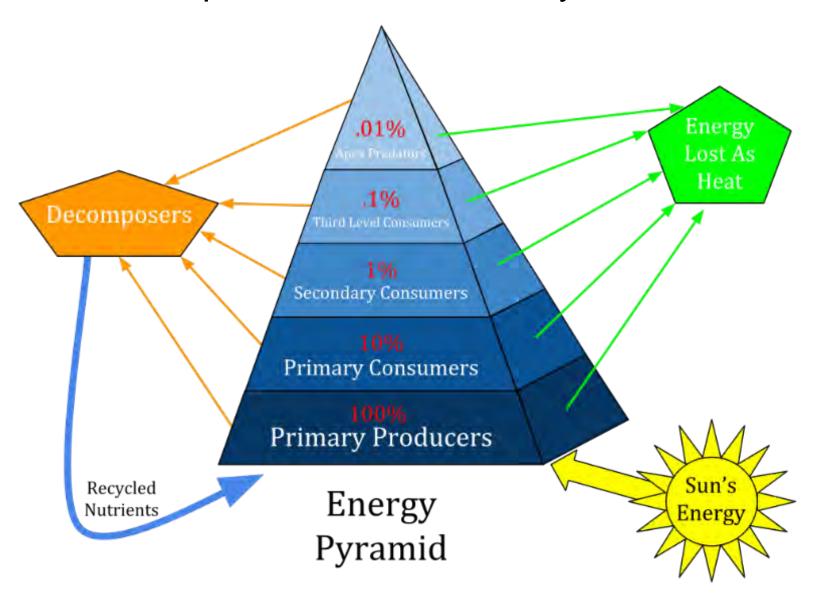






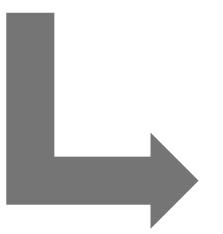


Trophic levels in an ecosystem



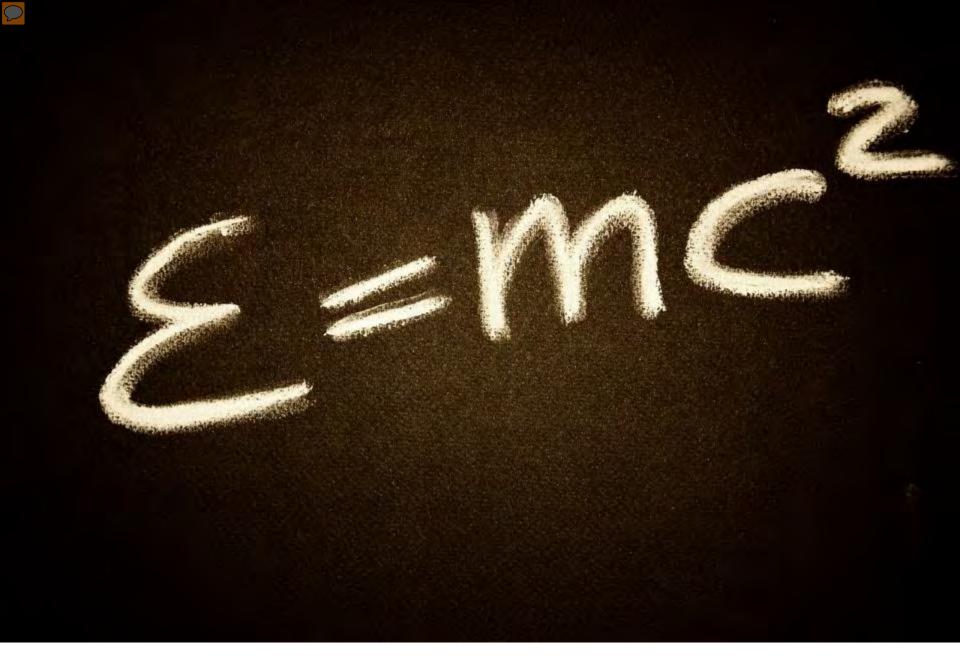








California Academy of Sciences



California Academy of Sciences





No animal wants to be eaten.

If you're a hartebeest, your strategy is to spot danger and then make a run for it. If you're an ocelot, you want to track your fleeing prey and chase it down. Each animal has different needs for its vision.

A hartebeest has eyes on the sides of the skull. This allows for greater side or peripheral vision.

An ocelot has eyes which face toward the front and has a larger area of overlap between the left and right eye. This allows for greater 3D vision and depth perception.



OCELOT



The Academy's Sustainable Design

- 90% of all demolition materials were recycled
- 32,000 tons of sand from foundation excavation applied to dune restoration projects in San Francisco
- 95% of all steel from recycled sources
- 15% fly ash (a recycled coal by-product),
 35% slag in concrete
- 50% of lumber harvested from sustainableyield forests
- 68% of insulation comes from recycled blue jeans
- 90% of office space will have natural light and ventilation
- 60,000 photovoltaic cells; 213,000 kilowatthours
- 30% less energy consumption than federal code requirement









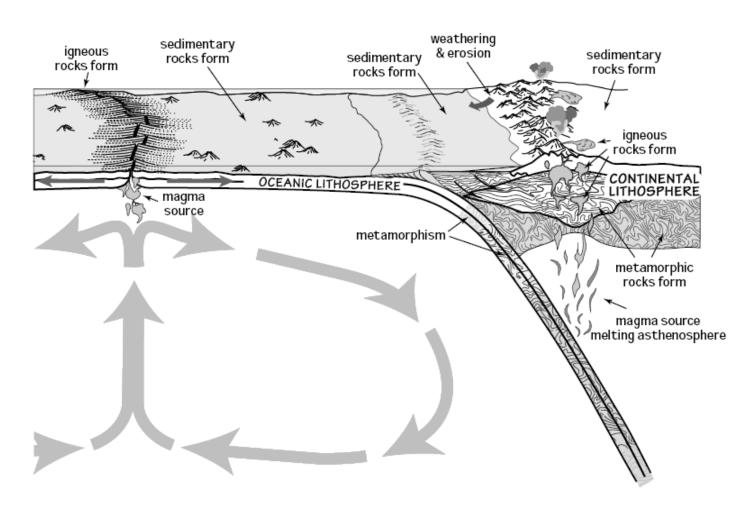




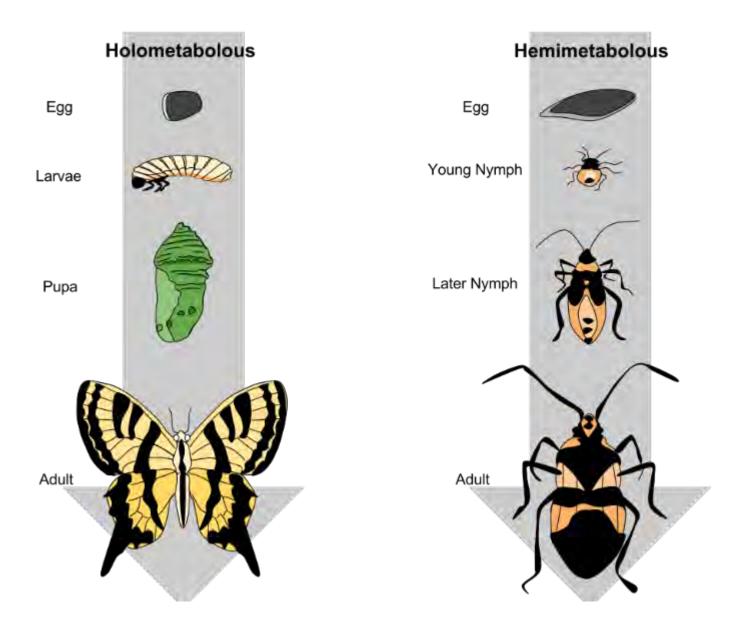
California Academy of Sciences



The Rock Cycle







California Academy of Sciences



