MAD LIBS

• Mad Libs is a word game where one player prompts another for a list of words to substitute for blanks in a story; these word substitutions have a humorous effect when the resulting story is then read aloud.



Make sure your lunch Suit case filled with nutritious bearded food. Do not go to the <u>angry</u> food stand across the street from school. The hamburgers they serve are fried in <u>Grandma</u> and are made of Kitten meat. So take a sandwich made (animal) of <u>carrots</u> it's much or peas healthier! Drink <u>yellow</u> milk instead of

nairy colas.



FOOD AND AGRICULTURE



HUMANS AND NUTRITION



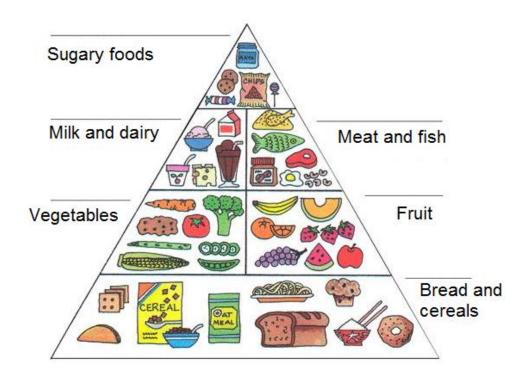
Humans use food <u>both as a source of energy and as a source of materials for building and maintaining body tissues.</u>



MAJOR NUTRIENTS IN HUMAN FOODS

Nutrient	Composition	Sources	Energy yield	Function
Carbohydrates	sugars	wheat, corn, and rice	4 Cal/g	is the main source of the body's energy
Lipids (oils and fats)	fatty acids and fatty alcohols	olives, nuts, and animal fats	9 Cal/g	helps form membranes and hormones
Proteins	amino acids	animal food and smaller amounts from plants	about 4 Cal/g	helps build and maintain all body structures

HUMANS AND NUTRITION



- A person's <u>diet</u> is the type and amount of food that he or she eats.
- Malnutrition
 - a condition in which people do not consume enough calories or do not consume the right amount of nutrients needed for the body.
- Top 3 Crops Grown Worldwide
- 1. Rice
- 2. Corn
- 3. Wheat



THE ECOLOGY OF FOOD



- As the human population grows, we will start to face challenges with feeding everyone
 - 1. Habitat loss
 - 2. Soil Erosion/Land degradation
 - 3. More energy/chemicals needed
 - 4. Overharvesting of wildlife
 - 5. Overgrazing



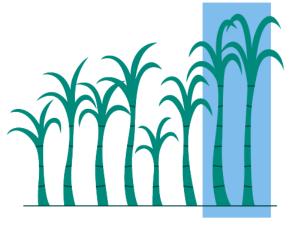
THE ECOLOGY OF FOOD



- How can we avoid the issues faced with feeding everyone?
- **Answer**: Agriculture with high efficiency
 - This means that the farmer can produce a high yield of crops with little resources used
 - This benefits both the farmer and the consumer
- In order to have agriculture with high efficiency, crops must have the right genes.
- There are 2 ways to produce crops to have the genes you want them to have.
 - 1. Selective Breeding
 - 2. Genetic Engineering

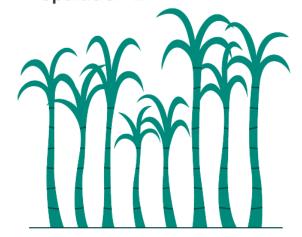


Population 1





Population 2



SELECTIVE BREEDING

- In selective breeding, farmers take two plants that have desirable genetic traits and breed them together to produce offspring with the desirable traits of both of the parents.
- For example, a farmer crosses a mildew-resistant pea plant with a high-yielding pea plant in order to get a high-yielding, mildew-resistant plant.
- Using the process of selective breeding, it can take many years to produce a new population with just the right traits.



ENGINEERING A BETTER CROP

- Genetic engineering is a technique in which genetic material in a living cell is modified for medical or industrial use.
- Scientist use genetic engineering to transfer desirable traits, such as...
 - 1. Resistance to pests
 - Resistance to diseases
 - 3. Longer shelf life
 - 4. Higher yield per crop
 - 5. Growing time
 - 6. Size
 - Nutritional value
 - 8. Improved look
 - 9. Etc.
- Any food that is genetically engineered is considered a GMO

Watch this video

https://www.youtube.com/watch?v=7TmcXYp8xu4



