



SURVIVAL NEEDS OF ORGANISMS

INTRO ACTIVITY

- You are assigned an organism.
- Think to yourself what your organism needs to survive.
- Get with someone that is the same organism with you and share your ideas.
- Get together with your group of organisms and share your ideas.
 - Have someone in your group write down the list of what you came up with.
 - Can you put these into categories?

Each group will share with the class their basic needs for survival.

BASIC NEEDS OF A LIVING ORGANISM



- Air
- Water
- Sunlight
- Food (Nutrients)
- Habitat

AIR- OXYGEN

- Oxygen is produced by **green plants** and certain micro-organisms
- This oxygen is used by animals and most other micro-organisms
- Organisms use air/oxygen in different ways
 - You and other land organisms get oxygen from air.
 - Fish use oxygen in the **water**.
 - Marine mammals come to surface for oxygen.
 - Green plants use carbon dioxide, water and sunlight to make food.

- Plants and animals can't survive without oxygen



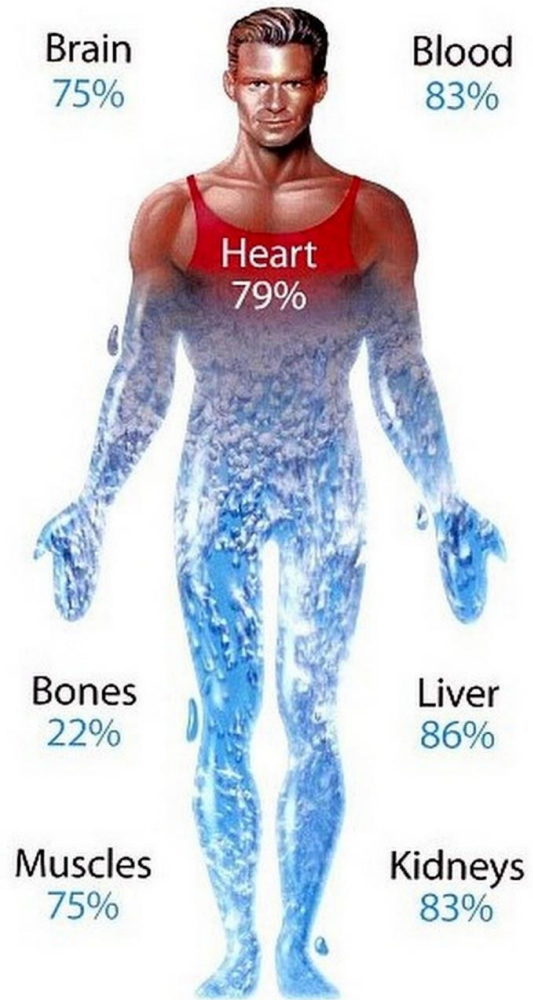
WATER

- Most living things contain between **50** and **90** % water.
- Without water, you could only live for a few days.
- Organisms that live in dry environments such as cacti, have methods for **storing** moisture in their stems or leaves.
- Water **carries** nutrients from one place to another in an ecosystem

- Without water, NO ORGANISM WOULD SURVIVE



Water % of Human Body



○ You are about two-thirds water.

NUTRIENTS-FOOD

• Nutrients

- Substances required for healthy **growth**
- Found in foods and soil
- Provide **energy** for growth, development and reproduction

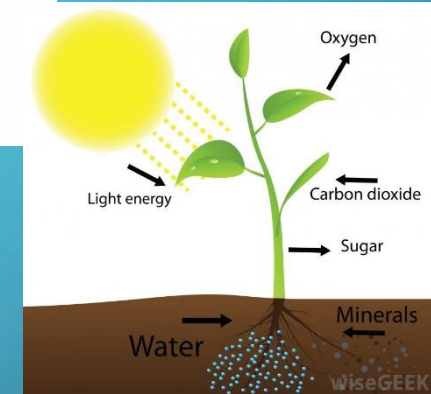


➤ How organisms get nutrients varies

- Plants use the **sun** to make their own food
- Aphids feed on plants
- Spiders and birds eat aphids
- ...the Sun is passing energy from one living thing to another...

LIGHT

- Sunlight required for photosynthesis
- Without light, plants would not be able to convert **solar** energy into the **chemical** energy needed to survive



- Photosynthesis provides energy to ecosystem
- Compare:
 - Forest canopy vs. forest floor
 - Deep water vs. surface water

HABITAT- **A HOME**

- A place to live
- Required to be the right size and have the right **conditions**
- Conditions include
 - Nutrients and **energy**
 - **Water**
 - **Air**
 - **Temperature**
- Usually habitats are shared between many organisms
 - Coral reefs- plants, animals and

• **Components of a habitat**

- **Food**
- **Water**
- **Shelter**
- **Space**

- **These are required to be in an arrangement appropriate to the animals **needs****

SUMMARIZE YOUR KNOWLEDGE

| Need of organism | Two examples of how organisms meet this need |
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ACTIVITIES

- Habitat Sit- with notes
- Next Days
- Habitat Tracks
- Habitat Rummy 2 days
 - Library for one day

COULD THE NEEDS OF A LIVING ORGANISM BE MET IN THIS???



- Is there air?
- Is there water?
- Is there light?
- Is there nutrients
- Is there a habitat?

- [More info](#)