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| Science 9 | Unit C |
| Section 1.4: How Organisms Take in Food. | 84 Mins |

How Organisms take in food

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| **Plants**  Take in inorganic substances to make organic  Methods   * Diffusion   Substances move from high concentration to lower concentration   * Osmosis   WATER moves from high concentration to low concentration   * Active Transport   Substances move from LOW concentration to high concentration (NEEDS energy)  **Animals**  Mostly eat other living things for nutrients  Methods   * Breakdown by mechanical means and chemicals   Hydrolysis – Breakdown of large molecules by water being added to the sugar. | CO2 + H20 -> C6H12O6  DRAW  DRAW  DRAW  Ingestion  Mechanical – Chewing  Chemicals – Acids in the stomach, Bases in the intestines, and saliva in the mouth  Cracker Chewing |

Substrates

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| Where plants and animals live | Lichen on Rocks (Rock is the substrate)  Mold on Bread (Bread is the substrate) |