

[Cornell Notes] Unit Topic: Life on Earth Name: _____ Period: _____
 Class: _____ Date: _____

Learning Target: I will learn the essential details of conditions necessary for life to exist.	Success Criteria: I can explain... - the Goldilocks Affect. - the importance of liquid water - the role of an atmosphere
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Essential Question: What elements of space support life on a planet?

Questions/Main Ideas:	Notes:
	Characteristics of Objects in the Solar System that Allow Life to Exist
	Review: Characteristics of Life
	1. All Living Things Are Made Of Cells
	2. Made of Similar chemical molecules
	3. Use Energy
	4. Respond to their environment
	5. Grow and Develop
	6. Reproduce
	All organisms rely on each other (interconnected) and resources from their environment.
	W - water (H ₂ O) for hydration. Importantly, H ₂ O in liquid form transports substances from one location to another, within the organism
	A - atmosphere, which shield a planet from meteors and space debris. It contains; 1. Carbon dioxide, CO ₂ - insulating our planet, trapping UV radiation, heat. example: green house effect

Summary:

Questions/Main Ideas:	Notes:
	<p>CO₂ is absorbed by plants for photosynthesis</p> <p>2. Oxygen - produced as a by product from photosynthesis and used in animal respiration, (O₂)</p> <p>3. Ozone (O₃) - protects organisms from UV radiation</p>
	<p>G = Goldilocks Zone - refers to an objects proximity to the Sun.</p> <p>"Not too close, Not too far" determining</p> <ol style="list-style-type: none"> 1. State of water; solid, liquid, gas. 2. Heat/Temperature of air and land. 3. Energy, amount of UV radiation for processes like photosynthesis <p>→ Energy flows through the ecosystem, it does not cycle.</p>
	<p>O = Oxygen - 21% of atmospheric gas.</p> <ol style="list-style-type: none"> 1. Produced by plants in photosynthesis 2. Used by animals to convert fuel to usable energy through cellular respiration
	<p>N = Nutrients, elements of Life</p> <p>SPONCH or CHONPS</p> <p>S - sulfur, P - phosphorous, O - oxygen N - nitrogen, C - carbon, H - hydrogen</p> <p>• Nutrients are obtained from what organisms breathe, drink (absorb), and eat.</p>

Summary: