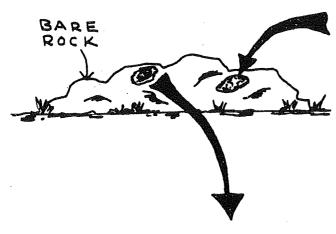
## NATURAL HISTORY OF LICHENS

BARE	LICHEN COLONY - COMPOSED OF BOTH
	AN INTERDEPENDENT RELATIONSHIP
The same of the sa	KNOWN AS MUTUALISM, WHERE BOTH ORGANISMS BENEFIT, BUT NEITHER IS HARMED.
	WATER - H2O  OXYGEN - OZ  CARBONDIOXIDE - COZ
(F20)	
*1	GREEN ALGAE
H.D. H3	CELLS IMBEDDED AMONG FUNGI THREADS
#5 #5 W	FUNGI THREADS (HYPHAE)
#2	
(H.D)	
#1. ALGAE CELLS RELEASE	DURING PHOTOSYNTHESIS,
以2. THE FUNGI RELEASE	NG PHOTOSYNTHESIS.
THE FUNGI ALSO ACT LIKE A	ALGAE USE FOR PHOTO- FWO PRODUCE ENERGY FOOD. "SPONGE" TO HELP CONTAIN THE FOR LIFE PROCESSES IN THEIR CELLS.
#4. FUNGI ABSORB	FOR LIFE PROCESSES IN THEIR CELLS.
ORDER TO OBTAIN ENERGY F	DR REPRODUCTION AND GROWTH.
QUESTION ?? WHY ARE LICHE	NS ABLE TO ESTABLISH THEMSELVES ON T SOIL TO ROOT THEM, AND FROM WHICH TO VAL? (ANSWER ON BACK)

## NATURAL HISTORY OF LICHENS



LICHEN COLONY - COMPOSED OF BOTH

ACGAE + FUNGI FORMING

AN INTERDEPENDENT RELATIONSHIP

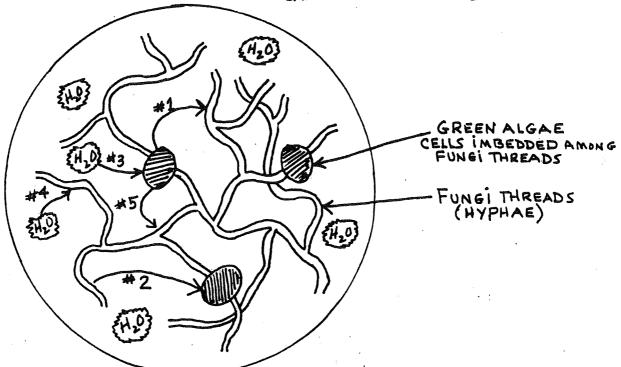
CALLED SUMBIOSIS (ALSO

KNOWN AS MUTUALISM, WHERE

BOTH ORGANISMS BENEFIT, BUT

NEITHER IS HARMED.

WATER - H20 OXYGEN - OZ CARBONDIOXIDE - COZ



#1. ALGAE CELLS RELEASE OXYGEN DURING PHOTOSYNTHESIS, AND THE FUNGI USE IT DURING CELL RESPIRATION.

#2. THE FUNGI RELEASE CARBON DIOXIDE DURING CELL RESPIRATION, AND THE ALGAE USE IT DURING PHOTOSYNTHESIS.

#3. BESIDES CARBON DIOXIDE, ALGAE USE WATER FOR PHOTO-SYNTHESIS, AND FROM THE TWO PRODUCE GLUCOSE ENERGY FOOD. THE FUNGI ALSO ACT LIKE A "SPONGE" TO HELP CONTAIN THE WATER WITHIN THE LICHEN COLONY.

#4. FUNGI ABSORB WATER FOR LIFE PROCESSES IN THEIR CELLS.

#5. DEAD ALGAE CELLS ARE DECOMPOSED CONSUMED THE FUNGI, IN ORDER TO OBTAIN ENERGY FOR REPRODUCTION AND GROWTH.

QUESTION ?? WHY ARE LICHENS ABLE TO ESTABLISH THEMSELVES ON BARE ROCK SURFACES WITHOUT SOIL TO ROOT THEM, AND FROM WHICH TO OBTAIN NUTRIENTS FOR SURVIVAL? (ANSWER ON BACK)

Desential needs (Or, COz, HrD, Food (CoH, Do). "A Self-contained primi-ecosyter with Produce (Mgas) & Decompose (Fung')

Note Cos 4 Think-