1. Describe the symbiotic relationship that makes up a lichen. How does each participant contribute?

turgus > Shelfor structure Algae - Uses photosynthesis to
Make sugar (food energy)
What if ... somebody "zapped" all
the algae in a piece of Lobaria? Prediction: Lobaria bould die Support: Fungus provides shelter, **Exproduction algue provides 600d.

**Lichen needs BOTH.

**Nutro, air, It would stave (no 600d)

2. Explain, in general, the relationship between lichens and air quality. What are some lichens (of the ones we studied) that are most sensitive to air pollution?

. Lichens absorb nutrients from air · They wen't selective- so they are vulnerable to pollutants · Usnea, Ramalina M., Lobria = What if the forgal body could selectively filter notions? Prediction: Oberpopulation of lichense
they would survive poor
air quality.

Support: With Ftenny, they could
take good whout told

A Ushea, Ram.m., Survive in a wider range
and Lotaria would of environments (air quality)
benefit the most 6. What does the data table below indicate?

	Amount of Parmelia (mm)	
	Medium	Large
	Diameter	Diameter
	Branches	Branches
	15	10
	22	11
	31	16
	10	27
	41	31
	52	17
	31	11
average	28.8571	17.5714286
t-test	0.1083	

· Looks like there's more Parmelia on med diameter tranches · Could just be random (+test > 0.05) What if data was collected at different times of the year.

3

4. What are the scientific and common names of the seven lichens we've studied? How can you identify them visually?

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