

**Activity B (continued from previous page)**

4. Experiment: You will now run a set of controlled experiments to test each variable separately. Complete three trials for each scenario in the tables below. Record your results.

Water (drops/hr)	Light	Temp.	Number of sprouts			Mean number of sprouts
			Trial 1	Trial 2	Trial 3	
50	50%	5 °C				
50	50%	15 °C				
50	50%	25 °C				
50	50%	35 °C				

Water (drops/hr)	Light	Temp.	Number of sprouts			Mean number of sprouts
			Trial 1	Trial 2	Trial 3	
50	0%	18 °C				
50	50%	18 °C				
50	100%	18 °C				

Water (drops/hr)	Light	Temp.	Number of sprouts			Mean number of sprouts
			Trial 1	Trial 2	Trial 3	
0	50%	18 °C				
50	50%	18 °C				
100	50%	18 °C				

5. Analyze: Describe the effect of each variable on seed A's germination rate. \_\_\_\_\_

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6. Challenge yourself: Experiment to find the best combination of water amount, light level, and temperature at which to germinate the most seeds of seed type A.

A. Which conditions yielded the highest germination rate? \_\_\_\_\_

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B. What type of habitat do you think seed A would grow best in? Explain your answer.

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