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L03 Uncover Your Ideas - Celery Stalk Model

Part A: Building a 'Celery Stalk Model'

- 1. Before beginning read all of the instructions.
- 2. Gather or locate all of the following materials:
 - Several celery stalks with leaves intact
 - Two 400 mL beakers
 - 100 mL graduated cylinder
 - Safety glasses/goggles
 - Scissors
 - Plastic wrap
 - Water
 - Marker
 - Food coloring
 - Rubber bands
- 3. Fill the beakers with 100 mL of water each. Add 2 drops of food coloring and stir the water until the food coloring is well mixed.
- 4. After your water is ready, cut about two centimeters off the bottom of the celery stalks.
- 5. Place one freshly cut celery stalk upright in each beaker water.
- 6. Seal the beakers with plastic wrap and a rubber band, so that no water can leave unless it goes through the celery stalks.
- 7. Use a marker to carefully mark the height of the water in the beaker, and to write your names and hour on the beaker.
- 8. At the end, your model should look like the image below.



9. Place one of the beakers in a sunny window or under a heat lamp.

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10	Place the other beaker in a dark area with no sunlig	tht.		
1.	Sketch each Celery Stalk Model as it looks now. Be sand the system boundary.	sure to ider	ntify all the pa	arts of the system
2.	Make a prediction: What do you think will happen t think that?	to the two	beakers of wa	iter? Why do you
Pa	rt B Recording your observations			
	Revisit your models 24 hours later. Study each mod	el carefully	. What do you	u observe?
2.	After 24 hours, measure the volume of water left in in each beaker after 24 hours in the data table belo		er. Record the	e water volume

Location	Starting Volume (mL)	End Volume (mL)
Light	100	

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	Dark	100			
Part C	: Answer the questions be	elow:			
1.	What is the one differen	ce (variable) between e	each of th	e models?	
2.	How did this difference a	affect the amount of wa	ater move	d within the m	odel?
3.	Does this evidence suppo	ort your prediction? W	/hy or why	/ not?	
4.		ergy behind the water			
5.	What real-world Earth co	omponents does each	part of the	e model represe	 ent?

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