Biology Boot Camp Schedule

Day 4: Energy Processing

Supplies

- KEVA planks
- CO₂ and O₂ probes if we have them
- Colored mini marshmallows
- Toothpicks
- Supplies for Photosynthesis lab (Doc: ADE Photosynthesis lab materials)

Schedule

AM: Nature center

	8:00 - 8:30:	Field Notebook
	8:30 – 9:00:	Lecture: Laws of thermodynamics (heterotrophs/autotrophs). Dr. Hempsey
	9:30 – 10:30:	KEVA Plank building activity to illustrate laws of thermodynamics;
		Marshmallow/toothpick activity to illustrate chemical reaction (H2 +O2 \rightarrow H2O)
	10:30 - 12:00:	Walk to spring: Streamside instruction on photosynthesis and cellular respiration (Pat
		Lopez); Field work: measuring O ₂ and CO ₂ in the water

12:00 – 1:00: Lunch – on your own

Bring lunch remains for compost bin

PM: NPC

- 1:00 1:50:Lecture: photosynthesis, cellular respiration, ATP, carbon cycle. Pat Lopez. Location:
Symposium. Video: Where does the mass of a tree come from?
- 1:50 –2:00: Measure seedling's growth and record details. *Location: PC 102 & PC 104*
- 2:00 4:30: Photosynthesis lab
- 4:30 5:00: Minute paper: When someone loses a lot of weight, where does the weight go?