# Solar Energy

## Phase I: Problem Definition

### Brainstorm:
What could a solar charger be used for? Grow your brainstorm by thinking outside of the box.

### Company:
Create a company name for your group’s Engineering team. Be creative!

### Stakeholders:
Who are you making this design for? Who will you present the final design to?
### Constraints:
Your design MUST do these to be successful.

- You must use no more than four solar cells, one USB step-up.
- You must communicate your findings in an instructions manual.
- You must sketch your final design.

### Criteria:
Your design could get better and better toward this goal, but it might still be a successful design if it doesn’t do the criteria as well as possible.

1. Maximize power output from the USB
   AND...
2. _________________

### Criteria Measurement:
How will you measure your success towards your major criterion?

1. To measure our success towards maximize the power output, current and voltage will be measured. The equation $P=IV$ will be used to calculate power.

2. To measure our success towards ____________, ...

### Refined Problem Statement:
Fill in the blanks to complete a problem statement sentence. This will guide your engineering design process moving forward.

We as ________________ seek to create a solar ________________ design challenge in order to maximize the power output and ________________ criterion for ________________.

Stakeholder