



## Challenges 1 & 2 Reference Sheet

### Catch Up Responses

**Due Tuesday, May 12**

*Reference Sheets offer help in areas in Solar Cup Challenges that might have been hard to understand. Our goal is to offer a few answers or hints with these reference sheets so students have a better understanding of the Challenge and want to submit a response.*

#### **Challenge #1**

- Throw out all of the obviously bogus choices, C,F,H,L,R,S
- Fill in the obvious choices: motor (11), motor controller (10), throttle (11), batteries (13)
- There are two switches, two diodes, two batteries and two resistors
- High current wires are thicker than low current wires.
- Solenoid is not used

#### **Challenge #2**

- All of the questions come from the video, fill them out as you watch.
- Questions 6 & 7 are only a slight variation of the examples on the Internet.
- The latitude of LA is not in the drop down menu, but is easily found on the Internet.
- Put just about any reasonable numbers into the simulation form and you will get full credit.