

Clark Public Utilities

Solar Car Challenge

What's in the Kit



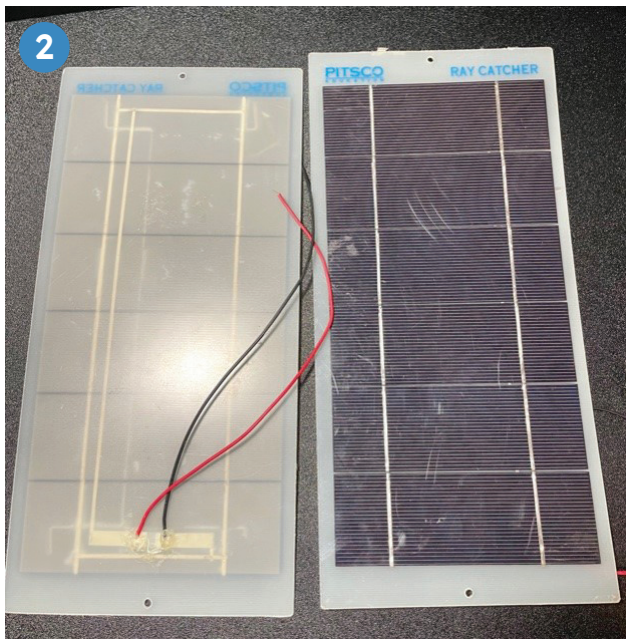
WHAT'S IN THE TEAM SOLAR CAR KIT?

You've received the team kit, now what? First, check the inventory to make sure you have all the parts. Some items are required materials for competition and others can be modified to make the car faster, lighter, and possibly, a design marvel.

1. SUPPLY LIST BASED ON GRADE

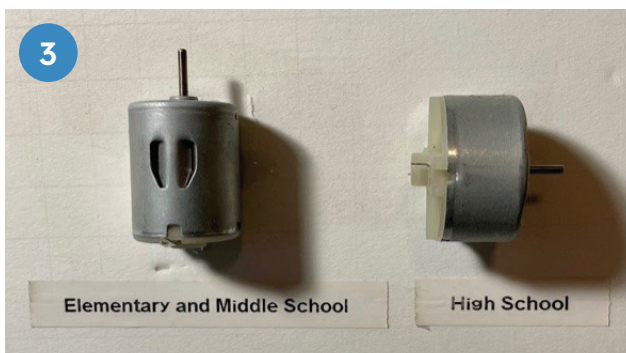
- Elementary Supply list
- Middle School Supply list
- High School Supply list

2. (1) PV MODULE (2.76 Volts, 1 Amp)

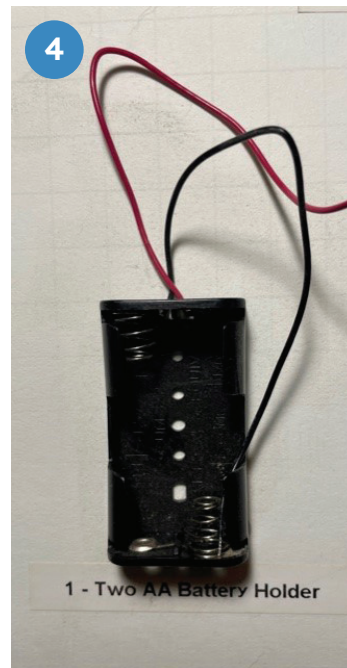


3. (1) DIRECT CURRENT MOTOR

- Long motor for Elementary & Middle School
- 5 Volt DC motor (short) for High School

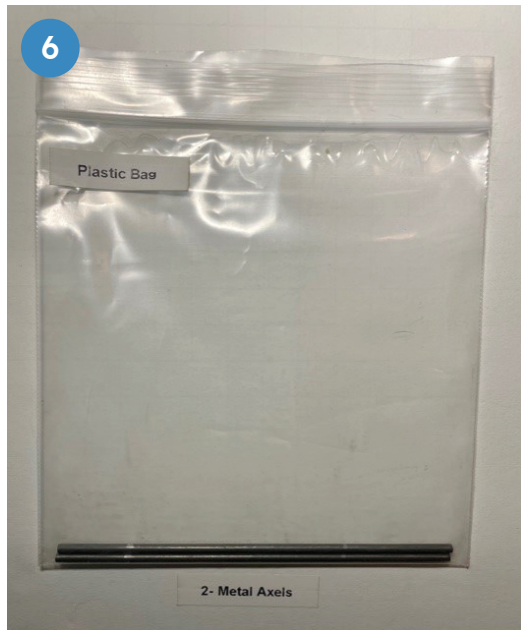


4. (1) 2-AA BATTERY HOLDER (do not store batteries in holder)



5. (2) RECHARGEABLE AA BATTERIES (do not store batteries in holder)

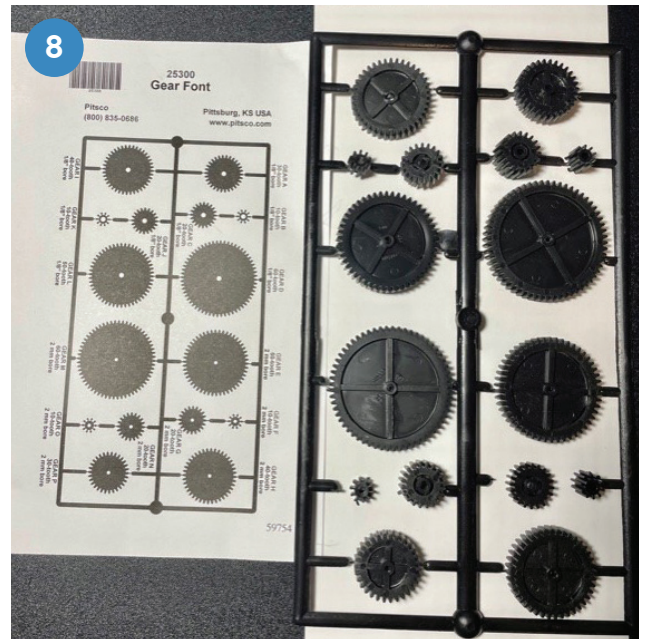


6. (2) METAL AXLES**7. (4) RUBBER BANDS**

- 2 thin
- 2 thick

**8. (18) GEARS**

- 8 gears (2mm hole)
- 8 gears (1/8" hole)

**9. (4) WHEELS**

- 2 large wheels
- 2 small wheels

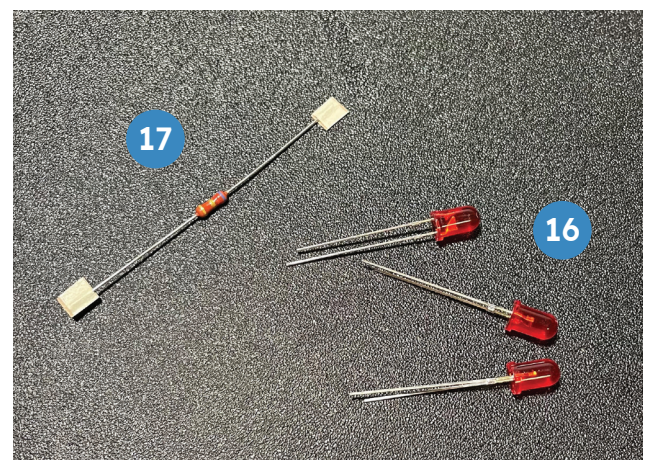


10. (2) BALSA WOOD SHEETS**11. (1) SOLAR PANEL BLANK (cardstock)****12. (1) 12-PACK MINI ALLIGATOR CLIP LEADS****13. (2) SMALL ALLIGATOR CLIPS****14. (4) NYLON SPACERS****15. (2) SCREW EYES****16. LED LIGHTS**

- Middle and High School Only

17. (1) 6.2 OHM RESISTOR

- High School Only



WHAT'S NOT IN THE TEAM SOLAR CAR KIT?

Some tools will be needed to construct the solar car. Keep in mind, this is a short list. You may come up with more creative ideas and materials to add an original touch to cars for aesthetic or performance reasons. Be sure to check the Judging Guide to confirm changes are legal for competition.

- 1. GLUE GUN AND HOT GLUE**
- 2. HOBBY KNIFE TO CUT BALSA WOOD**
- 3. SANDPAPER**
- 4. NEEDLE NOSE PLIERS**
- 5. RULER**
- 6. CLAMPS**
- 7. SOLDERING IRON AND SOLDER**
- 8. HIGH SCHOOL: MATERIALS TO CONSTRUCT A SWITCH MECHANISM**
- 9. MATERIALS FOR MODIFICATIONS**