

1. Draw lines for axle locations.
2. Slide axel mounts onto axles.
3. Tap wheels and gear onto axles.
4. Hot glue axel mounts to balsa wood board.
5. Tap pinion gear onto electric motor shaft.
6. Hot glue electric motor onto balsa wood so pinion gears mesh smoothly with gear on axle.
7. Hot glue battery pack to balsa wood.
8. Connect battery pack wires to motor via alligator clips
9. Install batteries and test.
10. Challenge teachers to design and build solar panel mount. Supply them with extra materials for panel mount and foam board to simulate solar panel.
11. Replace foam board with solar panel.
12. Rewire motor to solar panel instead of batteries and, if sun is available, test.

