Self Propelled Car Rubric

**Diagram/Drawing:** \_\_\_\_\_\_\_\_\_\_/ 20 POINTS

* Clearly labeled with all parts used
* Neat and organized, colored
* Large enough to fill a sheet of computer paper, and no larger
* Reflects your best effort

**Write-up:**

Self-propelled car strategy: \_\_\_\_\_\_\_\_\_\_/15 POINTS

* How did you come up with your ideas?
* How did your ideas change during your project?
* Why did you choose to use specific parts?

Self-propelled car design: \_\_\_\_\_\_\_\_\_\_/15 POINTS

* Where is the potential energy stored in your machine?
* Where are the energy transfers? (List this in steps.)

**Practice Log**.

* Ten practice runs with your car logging distance and time for each run. \_\_\_\_\_\_\_\_\_\_/5 POINTS
* Calculate the speed for each run, as well as the average speed overall. \_\_\_\_\_\_\_\_\_/10 POINTS
* Listed 5 top speed trials, and a graph of each of your five trials’ speeds on your distance-time graph provided. Each trial is labeled with a number or color. \_\_\_\_\_\_\_\_\_\_/10 POINTS

**Model Car** \_\_\_\_\_\_\_\_\_\_/25 POINTS

* Car moves on its own
* Car is sturdy/structurally sound
* Reflects your best effort

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Distance

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Time

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Speed