

## Design Drawings

Name \_\_\_\_\_

### Reasons and Strategy for speed

This document is prepared to help build a car that will in theory go faster than the basic kit car. If you wish to use a different sheet to complete the two tasks feel free to do so.

**Task 1** Describe with a drawing and a descriptive narrative what your car will look like.

- using the space below or a separate sheet of paper create the following profiles of your car

- Left or Right side view
- Top (not bottom) view
- Front or down hill end
- Rear or up hill end

\* to do this simply trace your block on to this paper and sketch the outline you will cut out ...Create a template

**Task 2** Design Philosophy

Using your understanding of acceleration due to gravity, momentum, energy of position, some aerodynamics as well the role friction plays explain why you choose the design elements in your Pinewood Racer.

- What factor will you use to cause your car to fall down the track faster.
- What design element or elements embodies this or these concepts.