# Mousetrap Cars

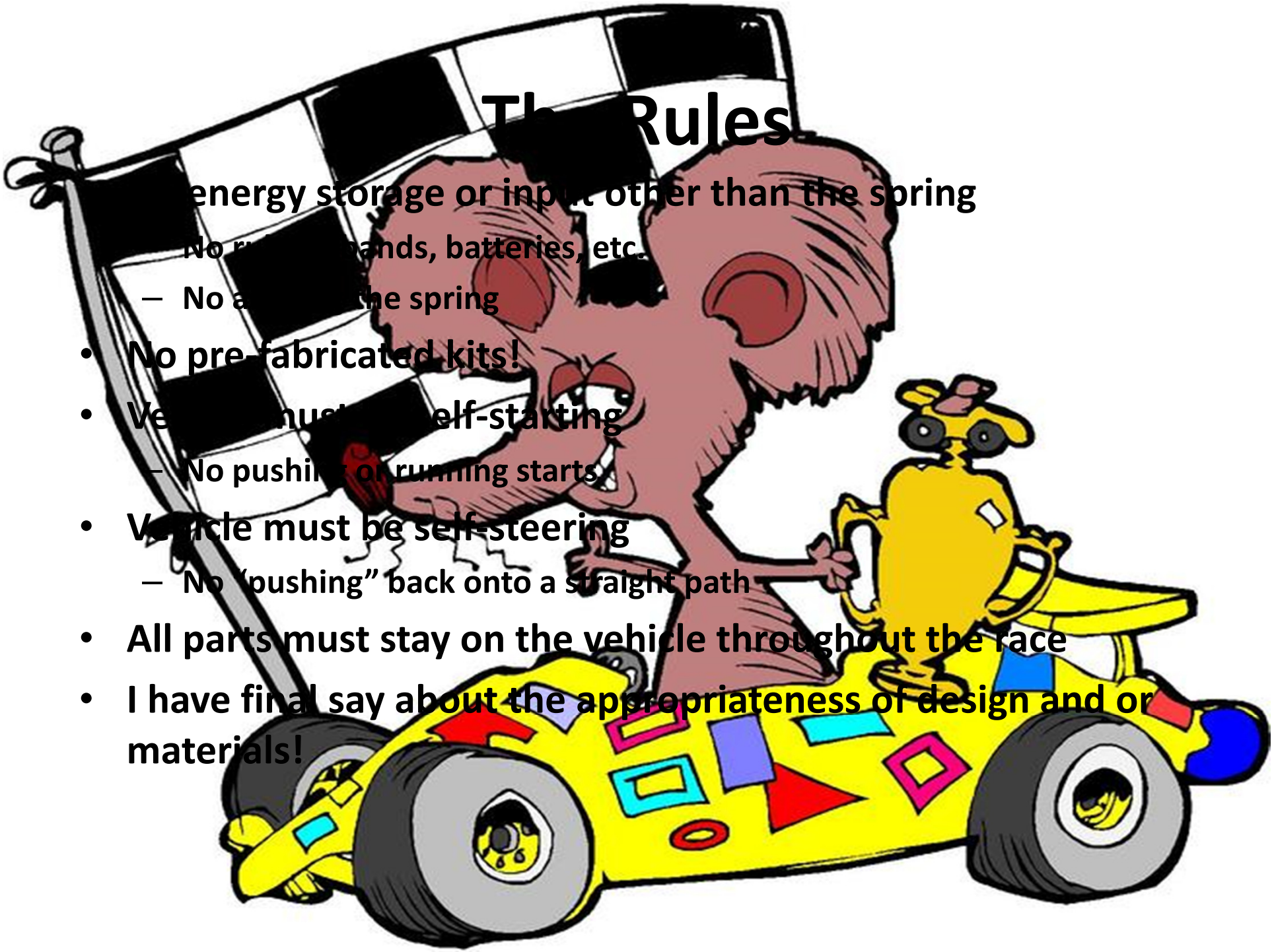
## Term 1 Physics Project

# The Rules

- Must be powered by a single Victor brand mousetrap (or other brand that is similar to the Victor brand.)

# The Rules

- No energy storage or input other than the spring
  - No rubber bands, batteries, etc.
  - No air other than the spring
- No pre-fabricated kits!
- Vehicle must be self-starting
  - No pushing or running starts
- Vehicle must be self-steering
  - No "pushing" back onto a straight path
- All parts must stay on the vehicle throughout the race
- I have final say about the appropriateness of design and or materials!



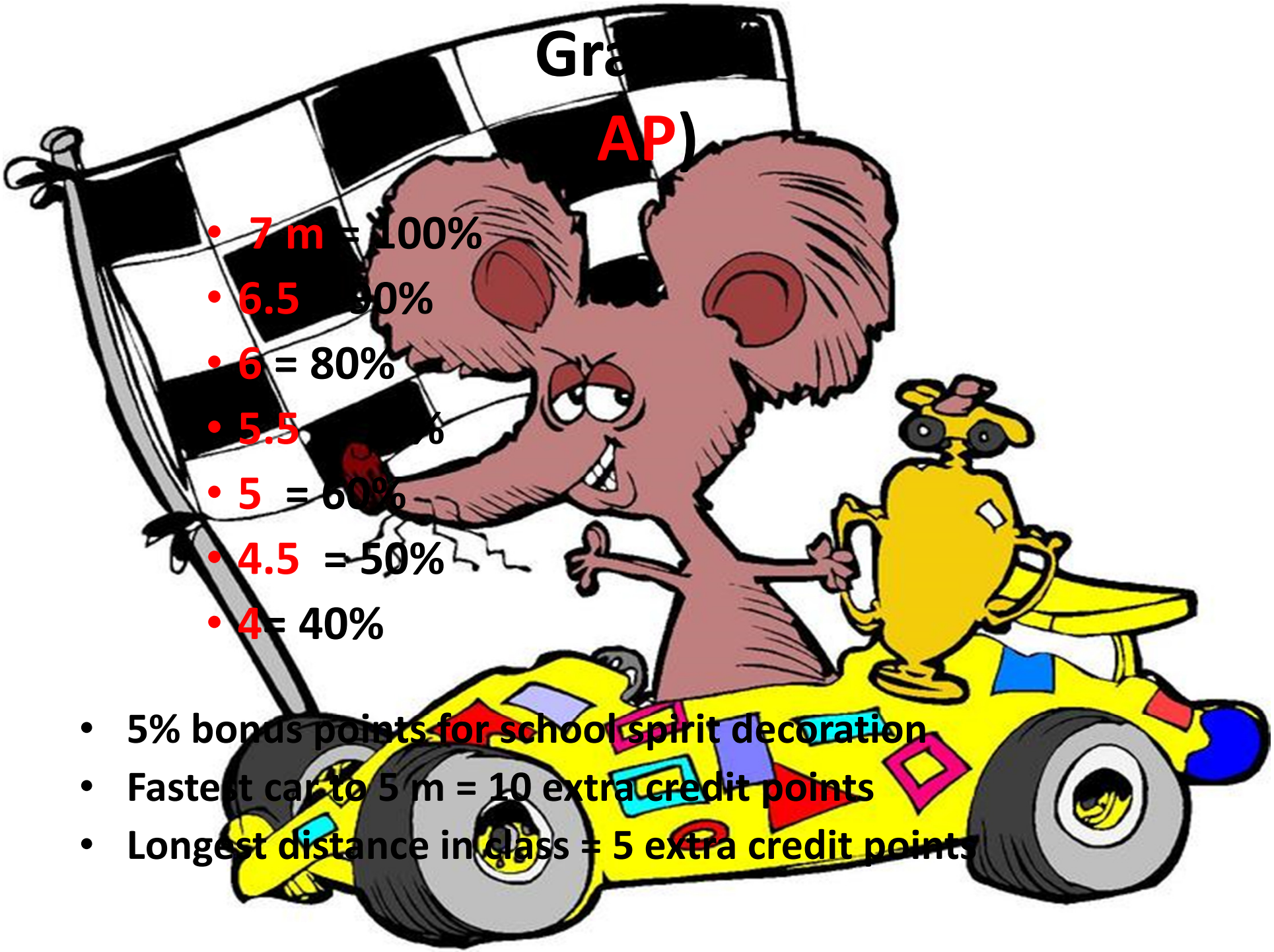
# Re[illegible]ations

- Due [illegible]day 25 Aug[illegible]t
- Must travel a minimum of 5 m to receive a pa[illegible]g s[illegible].

# Gra

# AP)

- 7 m = 100%
- 6.5 = 90%
- 6 = 80%
- 5.5 = 70%
- 5 = 60%
- 4.5 = 50%
- 4 = 40%

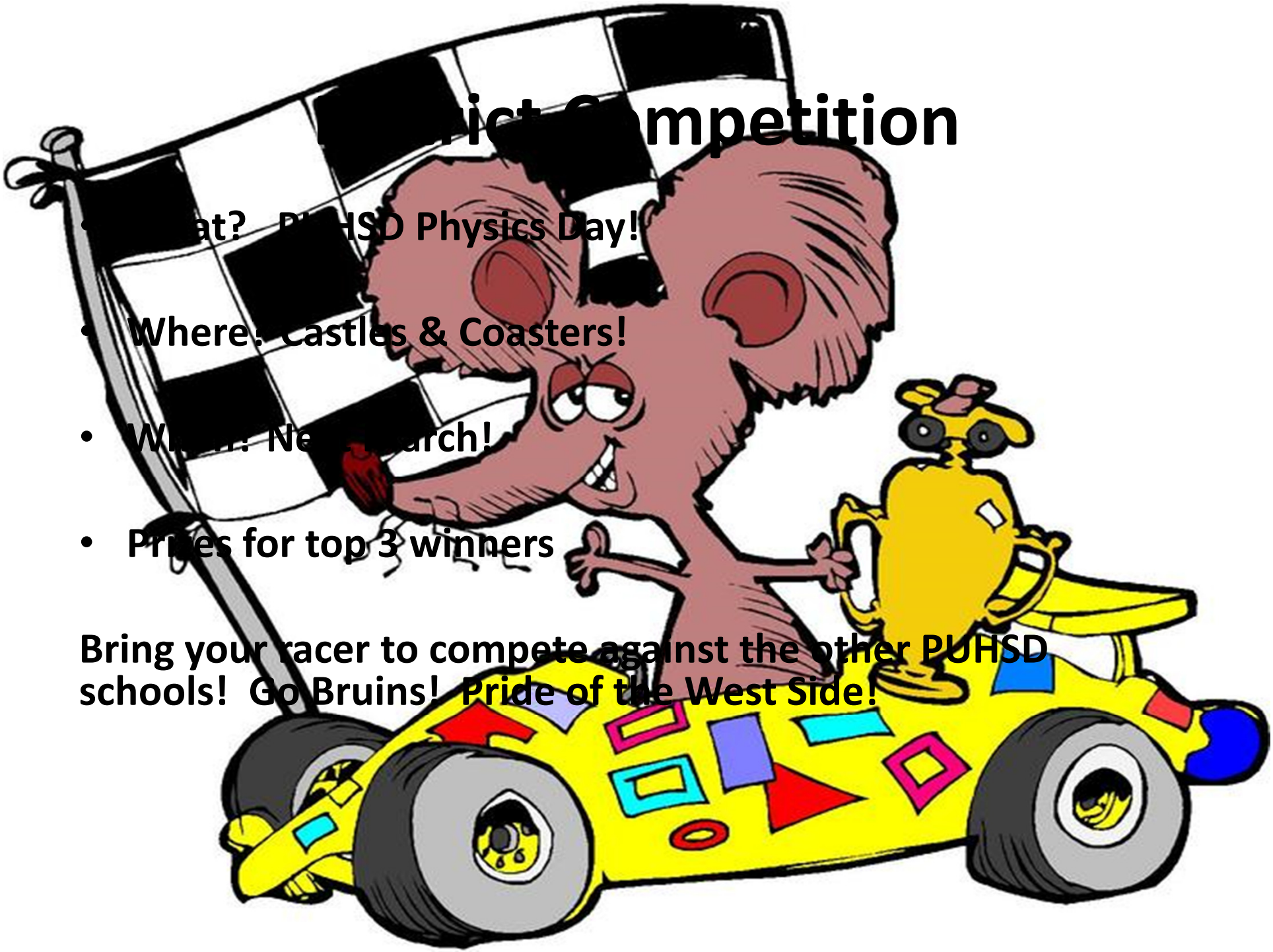


- 5% bonus points for school spirit decoration
- Fastest car to 5 m = 10 extra credit points
- Longest distance in class = 5 extra credit points

# [illegible]ict Competition

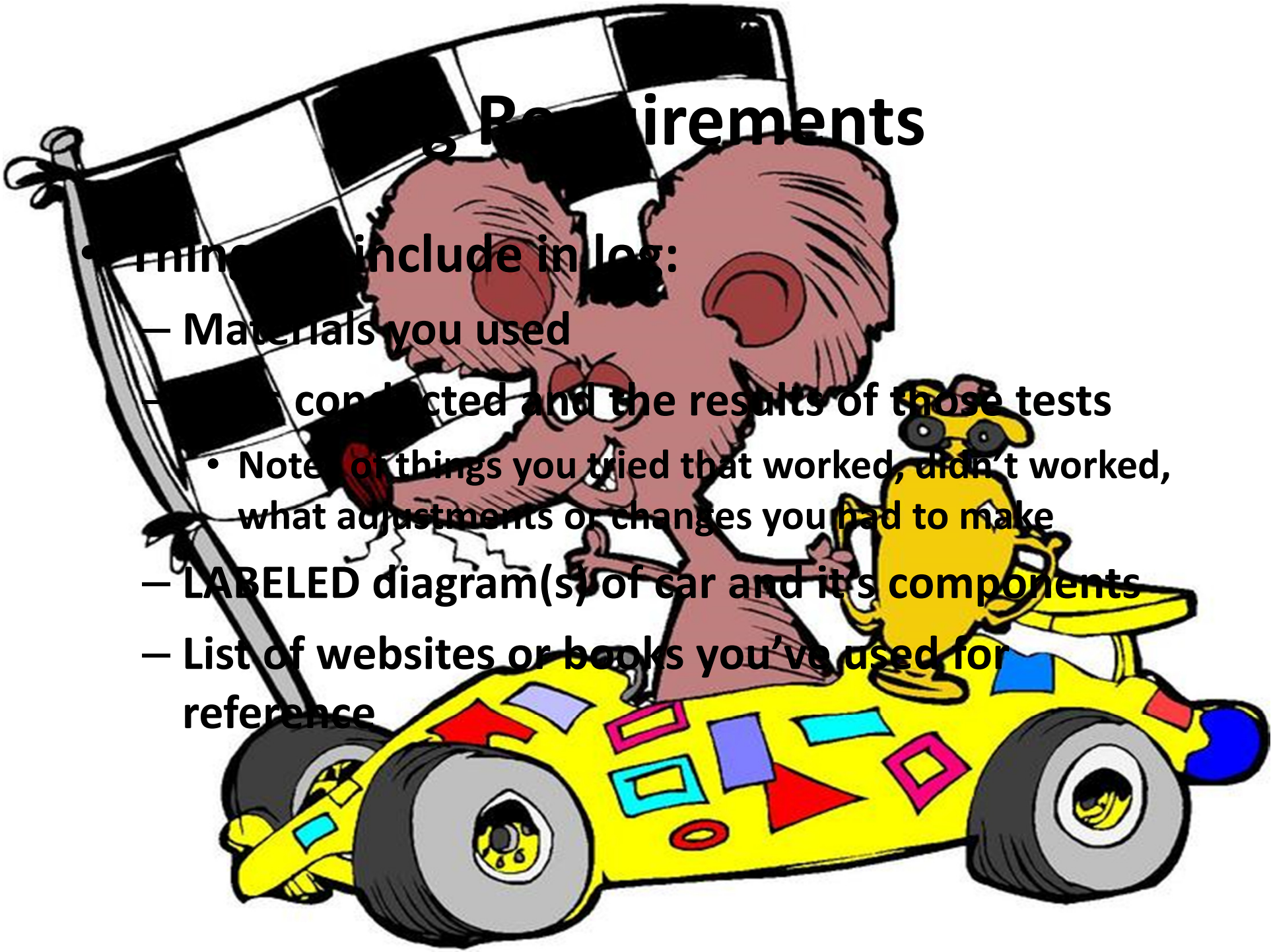
- [illegible]at? PUHSD Physics Day!
- Where: Castles & Coasters!
- [illegible]: Ne[illegible]arch!
- Prizes for top 3 winners

Bring your racer to compete against the other PUHSD schools! Go Bruins! Pride of the West Side!

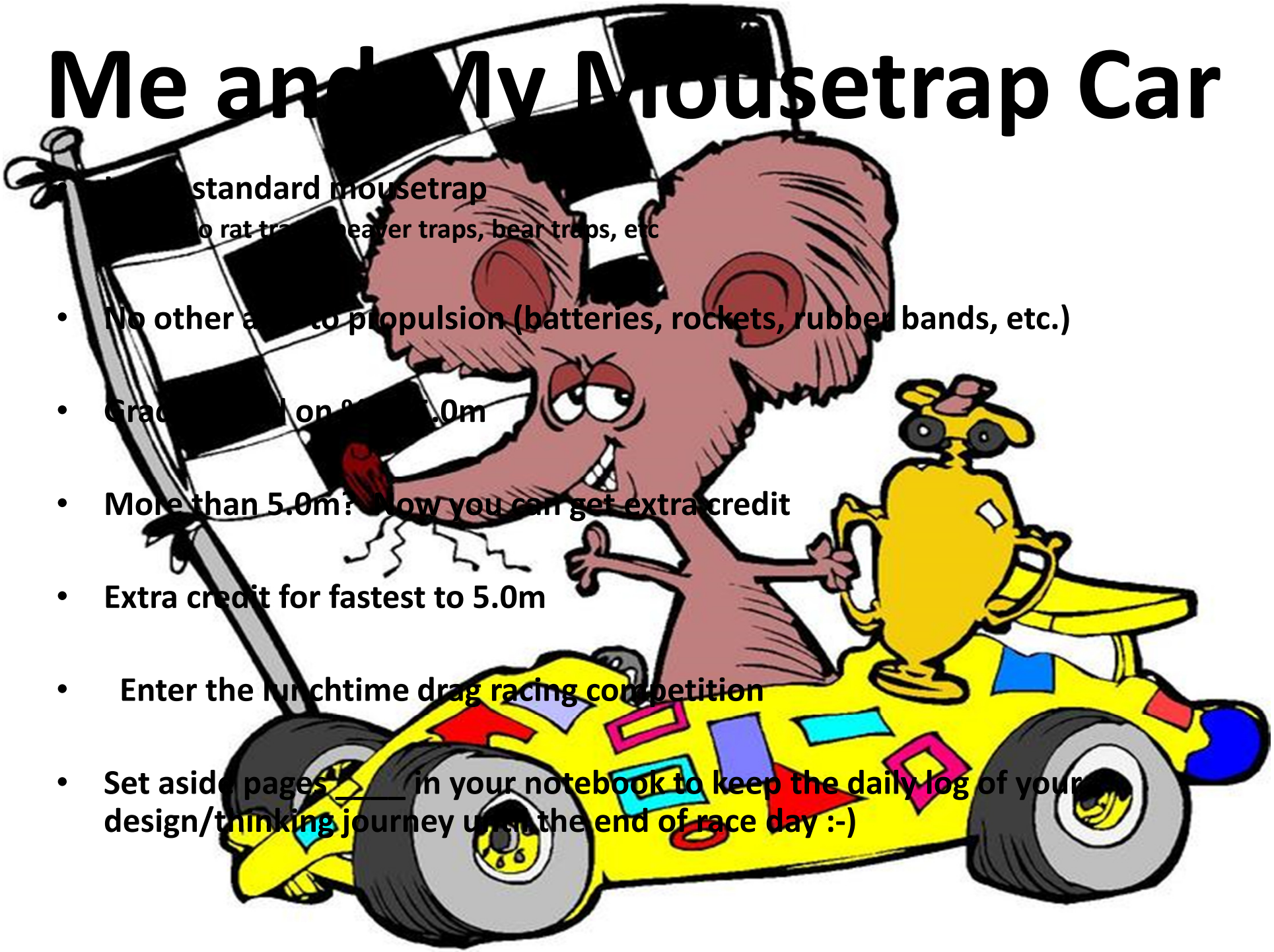


# Log Requirements

- Minimum include in log:
  - Materials you used
  - Tests conducted and the results of those tests
    - Notes of things you tried that worked, didn't worked, what adjustments or changes you had to make
  - LABELED diagram(s) of car and it's components
  - List of websites or books you've used for reference



# Me and My Mousetrap Car



- standard mousetrap
  - o rat tr eaver traps, bear traps, etc
- No other a to propulsion (batteries, rockets, rubber bands, etc.)
- Gra on .0m
- More than 5.0m? Now you can get extra credit
- Extra credit for fastest to 5.0m
- Enter the lunchtime drag racing competition
- Set aside pages ____ in your notebook to keep the daily log of your design/thinking journey until the end of race day :-)