

**H.E. Supplies Pty Ltd**  
Hobby Supplies  
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ABN 54 125 001 541



**Mousetrap Racers**

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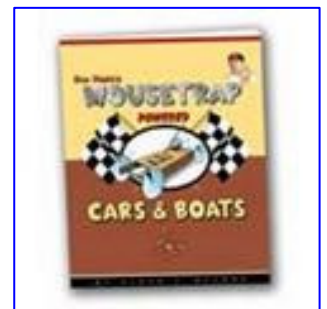
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# Mousetrap Racers

Mousetrap racers are a great fun way to learn about physics.

Physics and science teachers use competitions involving these vehicles to teach lessons about torque, friction and power transfer.

## Limitation Suggestions



In any competition (see below) there needs to be rules. Depending on the lesson that is being taught and the ability of the students involved, limitations could take the form of

- No use of ready to assemble kits
- Use of kits ok but must be modified to own design
- Study of a preassembled kit is ok but then make your own design from different materials

We offer everything from books, plans, software analysers and building materials to a selection of ready to assemble kits with full instructions to allow you to make your competition as easy or as difficult as you please.



## Competition Suggestions



**Competition 1 - Distance.** The racer that gets the furthest over a straight course wins.

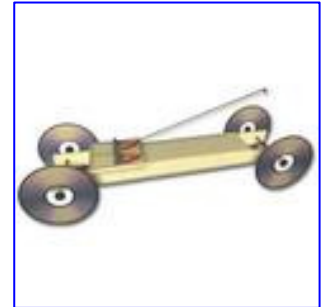
**Competition 2. Hill climb.** Set trials at various inclines to see which racer can best handle the slopes.



**Competition 3. Load carrying.** A set of trials with the racers carrying incrementally increasing loads over a set distance. Which racer can keep going after the others give up.

**Competition 4. Terrain challenges.** The racers must compete on various terrains such as sand, gravel and shallow water.

**Competition 5. Speed.** The fastest speed over a set distance of 10 metres.



**Once the competition is over, students could be encouraged as a group to experiment with improvements to each vehicle.**

### Quantity Pricing

**Substantial discounts are available for quantity buys of 5, 10 or 50 of any item.**


**The range of kits and parts can be found on our web site at**

**<http://www.hobbyparts.com.au/store/categories/mousetrap/all/pics/>**

**or just log in to <http://www.hobbyparts.com.au/> and search for the category "mousetrap".**

**While you're there check out the rubber band vehicles, balloon racer and mousetrap boat.**



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|  | <p><b>INFORMATION SHEET</b><br/><a href="http://www.hobbyparts.com.au">www.hobbyparts.com.au</a><br/><b>Mousetrap Racers</b></p> |
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