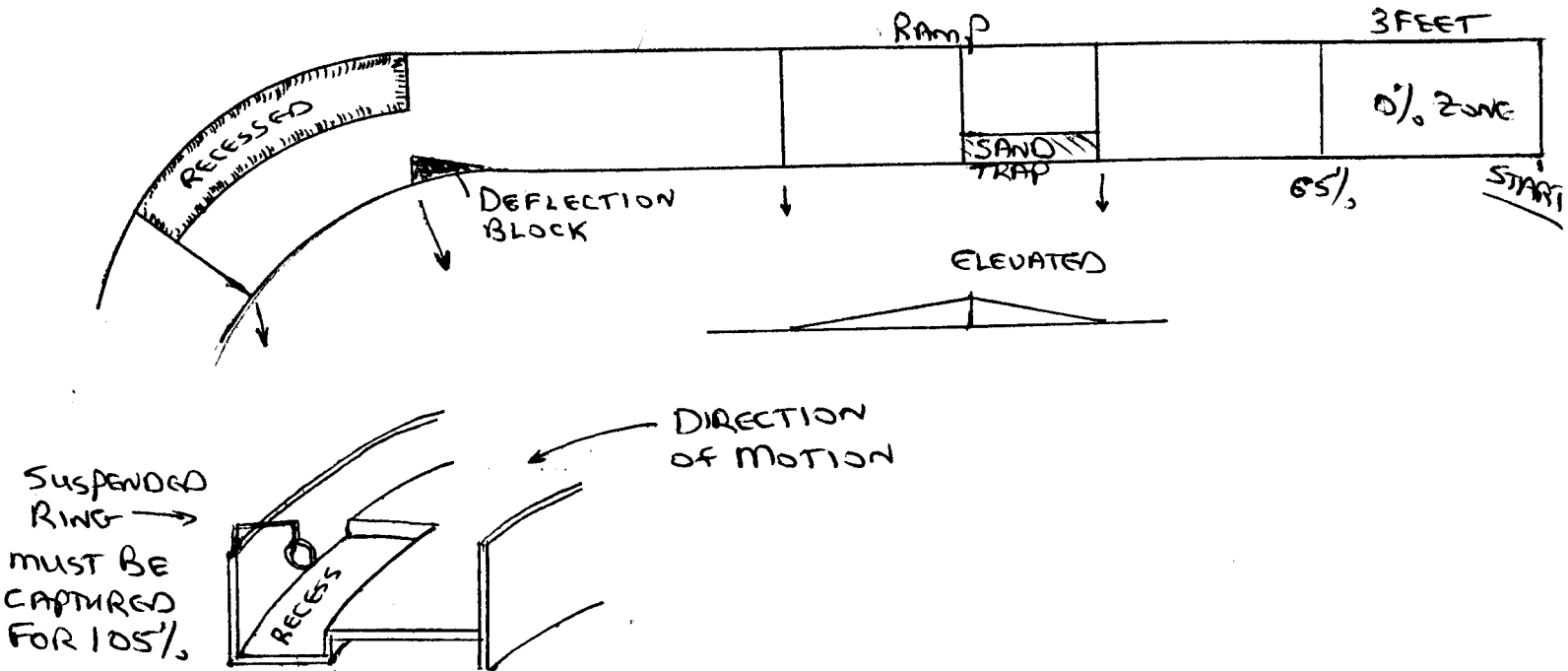


2006 MOUSETRAP-DRIVEN CAR "MOTOR COURSE"



- (1) The car's motion must originate directly from a standard "Victor" mousetrap. The energy released by springing the trap may be transferred by gear mechanism or cable to the wheel assembly (i.e., wheels + axle).
- (2) The front of the car's front wheels will be placed on the "start" line, with the trap previously set and the car at rest. Motion of the car is established by pressing vertically downward on the trap's trigger mechanism, using the eraser end of a pencil.
- (3) The car must be supported by vertically-oriented wheels having the same diameter.
- (4) The axles which support the wheels must remain horizontal throughout the entire course.
- (5) The car must negotiate the "recessed" portion of the track, where the car's main axles remain horizontal (i.e., the car's body may not tilt).
- (6) The recess will be approximately one inch in depth, and will follow the curved portion of the course.
- (7) An additional mechanism may be attached to the car's body, to assist its motion through the curved portion of the course.
- (8) The car must "capture" a ring loosely suspended above the track, in the area of the recess. Possessing this ring will earn a double 105% grade.
- (9) For the purpose of evaluating the car's performance, the course will be graduated by strips of masking tape which display a percentage grade ranging from 0% to 100%. The car's grade is established during any single run as the car comes to rest over one of the strips of masking tape. If the body of the car passes beyond one strip, but has not made contact with the next strip on the course, the grade is read from the strip just passed. The front of the front tires must, at least, make contact with the strip, as viewed from directly above.
- (10) Students may improve their car, and re-run it, for the purpose of earning a better grade.