

ROBOT OLYMPICS EVENT PLANS

Your country has been challenged to participate in two Olympic events, one from the Ancient Olympics and one from the modern Olympics. Work as a team to design two programs for your robot that will allow it to compete in both events. You may change the design of your robot any way you'd like if it helps you to be more successful at your events.

Event 1: Ancient Olympics Chariot Race

1. Using the recycled materials and adhesives provided, design a chariot that will attach to your robot.
2. Your robot and chariot must remain in your race lane during the competition.
3. Your chariot must have a way to keep its driver standing upright during the entire race.
4. Your robot must carry your country's flag during the entire race.
5. The winner of the race will be the team who crosses the finish line first with the driver still standing. (Your robot does not necessarily have to stop at the exact finish line.)

Event 2: Modern Olympics Gymnastics Floor Exercise Routine

1. Design a program for your robot that shows off the most complex moves you have learned. Choose a song to be the background music for your routine.
2. Your robot must carry your country's flag during the entire performance.
3. Using one of the songs provided, design a 30-45 second performance for your robot. Judges will add or deduct points according to the following scale:

Points Earned:

- a. Straight path movements (forward or backward) – 5 points
- b. Curved path movements (forward or backward) – 10 points
- c. Spins – 10 points
- d. Exact triple turns – 10 points
- e. Right angle turns – 15 points
- f. Robot does a trick in rhythm with the music – 15 points
- g. Flash lights at the same you are performing another trick – 15 points
- h. Performance meets time requirement – 20 points

Point Deductions:

- a. Robot goes outside of the taped off performance area – (-5) points each
- b. Any part of the robot other than the wheels touch the ground, such as unplanned tilts or accidents – (-5) points each
- c. Does not fall within time limit (-1) point for each second too short or too long
- d. Flag dropped (-10) points
- e. Prior to your performance, you must turn in a plan that shows what your robot is programmed to perform. The judges will watch your performance as they follow along with the program you have provided. You will earn 5 bonus points if your performance matches your written program.

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Country _____

Team Members _____

What song will your team use for your gymnastics routine? _____

Chariot Race Program	Gymnastics Routine Program
	