

Electric Car

You build the electric car with a kit

You will try to choose the best gear ratio for speed

The motor moves the axels by turning a gear that is attached to the axel

Wheels can have tires or no tires

Energy to move the car is constant and comes from batteries

Placement of the batteries may affect the speed of the car

The chassis is made of metal and has a fixed shape and size

The motor is a certain size and must be used as is.

The Electric Vehicle can be front wheel or rear wheel drive

The Electric Vehicle must complete the speed test without any track. And must run for 2-3 meters

Solar Car

You will design your own Solar Car with a variety of parts.

You will try to choose the best gear ratio for speed

The motor moves the axels and wheels by turning a gear that is attached to the axel

Wheels can have tires or no tires

Energy to move the car is constant and comes from the sun (as long as the sun is shining)

Placement and angle of the solar panel will affect the amount of energy you have

The chassis is made of balsa wood or foam core and is designed by you to be light and strong

The motor is a certain size and must be used as is.

The Solar Car can be front wheel or rear wheel drive

The Solar Car must complete the speed test using a PVC track that is 20 meters long.