

Cottage Grove Bible Church Awana Grand Prix

Cottage Grove Bible Church Awana Grand Prix, offers a free interactive, creative and hands-on experience to children (ages 5-12) attending the Western Oregon Exposition Heritage Fair. Since 2007, up to 100 students Kindergarten through 5th grade have been invited each year to make their own derby car to race at the fair on Sunday afternoon. Given the materials to design, sand and paint for their own car, volunteers will be on hand to assist them. What the child does:

1. Check in and register for the race by choosing a number for the car.

2. Receive a car kit.

3. Design the shape of the car.

Child is given a sheet of paper to sketch the desired shape, then glues the paper to the block of wood.

4. Take car to band saw where an adult volunteer cuts the block of wood to the desired shape.

5. Sanding station: an adult volunteer sands the car for the smaller children.

Older children are allowed to use the sanders with adult supervision. One

sander is for concave surfaces, the other for convex surfaces.

6. Drill press: a hole is drilled into



the bottom of the car by an adult volunteer to aid in the painting process.

7. Workbench: child takes car to workbench to manually sand out lines that are left by the sanders. At this time, the child may round off the corners of the car and make any adjustments desired.

8. Paintbooth: after the car is placed on a stand made with a wooden dowel, the car is painted with a brush-on sealer by the child. It will take about 20 minutes for the sealer to dry.

9. Workbench for more sanding: light sandpaper is used by the child to smooth out any streaks left by the paintbrush when sealing the car.

10. Paintbooth: a color is chosen by the child for the car and is sprayed on by a volunteer. After the paint dries, the child may wish to add stenciled detail or any other creative design. Numbers are put on the car.

11. Drill press: an adult helps insert the wheel pins by use of the drill press.

Wheels are attached.

12. Weigh station: car is weighed and adjustments made so that the car meets the required 5 oz specification. This may require drilling and placing weights in the wood.

13. Car is given a test run to make sure that the wheels are running smoothly.

14. Car goes into the "garage" cabinet to await the race.

15. During the race: when the child's number is called, child goes to the garage to get the car, takes the car to the race track where the car is placed on the proper track. Child goes to the end of the track to watch the race and to retrieve the car. After each race, child returns car to garage until called to race again. Child races a total of four races (one time on each track).



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