



Locations

- Classrooms
- After School
- Enrichment
- Summer Programs

Grades

- Grades 3-8

Length

Minimum 8-10 lessons

45-60 minutes

Final Session: Race

Benefits

- Customized
- Inclusive
- Experiential
- Engaging
- Reinforcing
- Project Based
- Team Building
- Measurable

Content Areas

Physical Science

- Scientific inquiry
- Forces
- Motion
- Simple machines
- Gravity
- Mass
- Friction
- Speed
- Kinetic energy
- Potential energy



Instructors helping students build and weigh their Mini Soap Box Derby Cars.

Technology

- Research
- Critical thinking
- Innovation
- Problem solving
- Collaboration
- Communications

Mathematics

- Measurement
- Standard and Metric
- Basic math review
- Decimals
- Fractions
- Geometry
- Graphing
- Slope
- Problem solving
- Time
- Weight

Engineering

- Define problem
- Test and refine
- Develop solutions
- Communicate
- Evaluate

Arts

- Visual and fine arts
- Creating
- Presenting

Funding

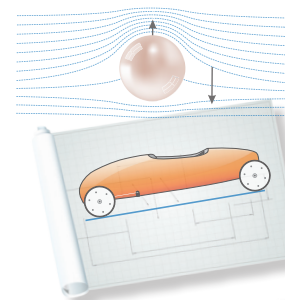
- Local Businesses
- Community Organizations
- Parent/Teacher Organizations
- Foundations and Grants
- After School Funding

Orders

330.733.8723, xt. 32
Soap Box Derby
330.733.8723
soapbox@soapboxderby.org
* Prices Subject To Change

SOAP BOX DERBY®

STEM Based Mini Car Program



It's gravity powered and STEM driven!



Since 1934 Soap Box Derby has been an *All-American Racing* tradition which provides youth with racing competitions in cities worldwide and hosts the FirstEnergy All-American Soap Box Derby World Championship Race annually at the historic Derby Downs Track in Akron, Ohio.

Mini Car Kit

The mini car is a 1/13" scale model of a Soap Box Derby® car. The car will be constructed, designed, tested, analyzed, evaluated and raced by youth.

Kit includes wheels, floorboard, axles, shell, bolts, fasteners and weights.

There are three types of cars: Stock, Super Stock, and Masters.

One car can be used for one student or one per group of two-five students.

Cost - \$16.25 per car



Workbook

This consumable Student Workbook contains 10 complete lessons (each 45-60 minutes) of activities and instructional guidelines. One workbook per student.

The activities focus on:

- Tool usage
- Mini Car Construction
- Weight Set-Up and Speed
- Mini Car Test Runs
- Analyzing Data
- Fine-Tuning Mini Car
- Mini Car Race

Content Areas:

- Physical Science
- Technology
- Engineering
- Arts
- Mathematics

Cost - \$5.50 per workbook

Tool Kit

Contains construction and measurement tools to develop and reinforce math, engineering and technology applications.

One kit per team of six students. Cost of the kit is \$60.



Track

The track is 35 feet long and has two lanes with a digital timer and computer program. It is used for testing, analyzing, fine-tuning and racing.

One track per program, classroom, grade level or school.

Cost - \$1,620



Mission

Build knowledge and character, and to create meaningful experiences through collaboration and fair and honest competition.

Education Program Development

To further promote our mission to "create meaningful experiences," ISBD developed the *Soap Box Derby® Mini Car Program*.

Mini Car Program

Designed for grades 3-8 classrooms, enrichment, after school, and summer programs, the program features a customized, all-inclusive activity kit.