

**Race Car**

Customize a race car to explore different variables

Massachusetts Curriculum Frameworks

Science - Grade 3

MA.3-PS. Grade 3: Physical Science

PS2.

Motion and Stability: Forces and Interactions

3-PS2-1.

Provide evidence to explain the effect of multiple forces, including friction, on an object. Include balanced forces that do not change the motion of the object and unbalanced forces that do change the motion of the object.

MA.3-ETS. Grade 3: Technology/Engineering

ETS1.

Engineering Design

3.3-5-ETS1-1.

Define a simple design problem that reflects a need or a want. Include criteria for success and constraints on materials, time, or cost that a potential solution must meet.

3.3-5-ETS1-2.

Generate several possible solutions to a given design problem. Compare each solution based on how well each is likely to meet the criteria and constraints of the design problem.

3.3-5-ETS1-4(MA).

Gather information using various informational resources on possible solutions to a design problem. Present different representations of a design solution.

Mathematics - Grade 3

MA.3.MD. Measurement and Data

3.MD.A.

Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.

3.MD.A.2.

Measure and estimate liquid volumes and masses of objects using standard metric units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same metric units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.

Language Arts - Grade 3

SL.PK-12. College and Career Readiness Anchor Standards for Speaking and Listening

Comprehension and Collaboration

SL.PK-12.1.

Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.

SL.3. Grade 3 Speaking and Listening Standards [SL]

Comprehension and Collaboration

SL.3.1.

Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.

SL.3.1.a.

Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion. (See grade 3 Reading Literature Standard 1 and Reading Informational Text Standard 1 for specific expectations regarding use of textual evidence.)

