



**RIDES: Roadways
Into Developing
Elementary
Students**



RIDES students designing airplanes.

The RIDES “trunk” of materials is filled with a wide variety of items designed to bring math and science textbook concepts to life.

The RIDES curriculum units titled Transportation and Energy, Roadway Geometry, Humans and Nature, and Designing Ways take students on multiple adventures learning about transportation in relation to both math and science concepts. This curricula was designed specifically to:

- 1 Improve math and science achievement.
- 2 Provide teachers with lesson plans that teach core standards with hands-on activities.
- 3 Provide interdisciplinary strategies that incorporate other subjects such as art, language arts, technology, and social studies into the curriculum.
- 4 Introduce students to careers in the transportation industry as early as Kindergarten.



The RIDES trunk.

Roadways Into Developing Elementary Students is an AASHTO education outreach program designed to interest K-8 students in transportation careers while improving science, technology, engineering, and math (STEM). Students utilize critical thinking skills to solve real world problems and learn about careers in the transportation industry especially civil engineering.

The curriculum is aligned with the National Standards for Math and Science, 21st Century Skills, and Core Curriculum Standards for Math and Science. Teachers attend two days of high energy training conducted by National Board Certified Teachers. This module contains a curriculum as well as a large trunk of resources for the teacher to use in the classroom to conduct the activities.

A few quotes from teachers who have attended RIDES training:

“The training was fun and energetic.”

“I enjoyed the hands-on activities and I am excited about the resources I am taking back to my classroom.”

“The training has given me so many ideas that will motivate my students.”

“I loved learning strategies for my classroom”

LEADING BY EXAMPLE

Unit Themes and Lesson Collections Include:

- Classification, Sequencing and Graphing.
- Forms of Energy
- Laws of Motion
- Inertia and Safety
- Seatbelt Safety
- Railroad Safety
- Transportation Careers and the Environment
- Simple Machines, Humans, and Transportation
- Machines, Humans and Transportation
- Litter and Pollution
- Trash to Treasure
- Roadway Geometry
- Understanding and Using Maps
- Designs in Transportation

TRAC & RIDES EDUCATIONAL OUTREACH PROGRAMS

tracrises.transportation.org

RIDES



*"Scientists investigate that which already is;
Engineers create that which has never been."*

—Albert Einstein