STEM Project-Based Learning Activities

Interactive STEM activities fostering critical thinking, teamwork, and hands-on learning.

Eco Engineers: Build a Recycling Robot (Grades K-5)

Students design and build a robot model to promote recycling.

- 1. Discuss recycling and sorting.
- 2. Design robot models.
- 3. Build models from recycled materials.
- 4. Present robots and their features.

Roller Coaster Challenge (Grades 6-8)

Students build miniature roller coasters to explore physics concepts.

- 1. Discuss basic physics (gravity, momentum).
- 2. Design roller coasters with simple materials.
- 3. Test and refine designs.
- 4. Share and discuss results.

Mission Mars: Space Habitat Design (Grades 9–12)

Students design habitats suitable for life on Mars.

- 1. Research Mars living challenges.
- 2. Design habitat models.
- 3. Present designs with detailed explanations.
- 4. Debate their practicality.

