

Robo Critter Curriculum Outcomes

Grade 5

Cluster 3: Forces and Simple Machines

- 5-3-03 Investigate a variety of levers used to accomplish particular tasks in order to compare them qualitatively with respect to fulcrum position, applied force and load.
- 5-3-04 Identify objects in the school and at home that use wheels and axles, and describe the forces involved.
- 5-3-14.1 Use the design process to construct a prototype containing a system of two or more different simple machines that move in a controlled way to perform a specific function.

Cluster 0: Over All Skills and Attitudes

- 5-0-3a Formulate, with guidance, a prediction/hypothesis that identifies a cause and effect relationship.
- 5-0-4c Work cooperatively with group members to carry out a plan, and trouble shoot problems as they arise.
- 5-0-4e Use tools and materials in a manner that ensures personal safety and the safety of others. Include: keeping an uncluttered workspace; putting equipment away; handling glassware with care.
- 5-0-5a Make observations that are relevant to a specific question.
- 5-0-5c Select and use tools and instruments to observe, measure and construct.
- 5-0-7g Communicate methods, results, conclusions, and new knowledge in a variety of ways.
- 5-0-8e Describe hobbies and careers related to science and technology.

Grade 6

Cluster 3: Electricity

- 6-3-08 Demonstrate and describe the function of switches in electrical circuits.
- 6-3-11 Use the design process to construct an electrical circuit that performs a useful function.

Cluster 0: Over All Skills and Attitudes

- 6-0-1d Identify various methods to solve a practical problem, and select and justify one to implement.
- 6-0-3d Develop criteria to evaluate a prototype or consumer product.
- 6-0-4b Construct a prototype.
- 6-0-4e Use tools and materials in a manner that ensures personal safety and the safety of others.
- 6-0-5c Select and use tools and instruments to observe, measure and construct.
- 6-0-5d Evaluate the appropriateness of units and measuring tools in practical contexts.
- 6-0-5e Estimate and measure accurately using SI and other units.
- 6-0-7g Communicate methods, results, conclusions, and new knowledge in a variety of ways.