

Grade 1 Science
Understanding Structures and Mechanisms



Materials, Objects & Everyday Structures



MEETS ONTARIO CURRICULUM EXPECTATIONS

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ALIGNED TO THE ONTARIO CURRICULUM



MATERIALS, OBJECTS AND EVERYDAY STRUCTURES

GRADE 1: UNDERSTANDING STRUCTURES AND MECHANISMS

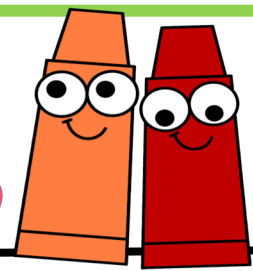
ONTARIO CURRICULUM



1.1	identify the kinds of waste produced in the classroom, and plan and carry out a classroom course of action for minimizing waste, explaining why each action is important
1.2	assess objects in their environment that are constructed for similar purposes (e.g., chairs at home and at school; different kinds of shoes; different kinds of floor coverings) in terms of the type of materials they are made from, the source of these materials, and what happens to these objects when they are worn out or no longer needed
2.1	follow established safety procedures during science and technology investigations (e.g., wear safety goggles when using saws and hammers)
2.2	investigate characteristics of various objects and structures, using their senses
2.3	investigate, through experimentation, the properties of various materials (e.g., the best materials for absorbing or repelling water, for flexibility, for strength: the flexibility of plastic makes plastic wrap useful for covering food in order to keep it fresh; the impermeability of rubber enables rubber boots to keep feet dry)
2.4	use technological problem-solving skills (see page 16), and knowledge acquired from previous investigations, to design, build, and test a structure for a specific purpose (e.g., a tent, a model of a swing set or other playground equipment, a bird feeder, a wigwam for people who need to move throughout the year)
2.5	use appropriate science and technology vocabulary, including experiment, explore, purpose, rigid, flexible, solid, and smooth, in oral and written communication
2.6	use a variety of forms (e.g., oral, written, graphic, multimedia) to communicate with different audiences and for a variety of purposes (e.g., orally explain their choices of materials and design decisions when presenting their structures)
3.1	describe objects as things that are made of one or more materials
3.2	describe structures as supporting frameworks
3.3	describe materials as the substances from which something is made
3.4	describe the function/purpose of the observable characteristics (e.g., texture, height, shape, colour) of various objects and structures, using information gathered through their senses
3.5	identify the materials that make up objects and structures (e.g., wood, plastic, steel, paper, polystyrene foam, cloth)
3.6	6 distinguish between objects (including structures) and materials found in nature (e.g., tree: sap) and those made by humans (e.g., toy: plastic)
3.7	describe the properties of materials that enable the objects and structures made from them to perform their intended function
3.8	list different kinds of fasteners (e.g., tape, glue, button, zipper), and describe the uses of each
3.9	identify the sources in nature of some common materials that are used in making structures (e.g., paper and rubber come from trees; plastic comes from petroleum; steel comes from metals and minerals in the ground)



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