

## Technology in Practice: Applications and Innovations

### Module title: Technology and the Diversity of Limits

#### Master Materials List

Consumable			
Item Description	Quantity for a class of 30	Optional	Chapter
Antacid tablets, fizzing	130		3
Balloon, 10-inch round	4		3
Cereal sample set (3–5 different brands)	10		1
Cup, small	10		1
Foam sheet, 2–3 mm thick	several sheets		3
Glue stick	10–15		1, 2, 3
Index cards, 3 × 5, pkg	1		3
Index cards, 4 × 6, pkg	1		3
Index cards, 5 × 8, pkg	1		3
Markers or felt-tip pens of different colors	varies		DT, 2, 3, 4
Materials for creating a visual presentation (such as poster board or chart paper and markers, or a computer with presentation software)	varies		DT, 2, 4
Materials needed to build the product the students will design	varies		4
Materials that might help students complete the cereals test	varies		1
Materials that might help students complete the investigation, such as rubber bands	varies	optional	1
Materials to design a tool to turn a light switch on and off (such as rulers, straws, aluminum foil, tape, string, rubber bands, Styrofoam, dowels, pushpins, and balloons)	varies		DT
Modeling clay, stick	10		3
Paper clips, jumbo size	8		3
Paper towel roll	4–5 rolls of different brands		1
Paper, large: legal size, chart, or butcher paper	90+		DT, 2, 4

Paper, 8 ½ x 11", unlined	90+		2, 3, 4
Pens or pencils of different colors	varies		DT, 1, 2, 3, 4
Pie plate, aluminum foil	4		3
Rubber bands	90+		1, 2, 3
Spoon, plastic (or craft stick)	30		1
Sticky notes, pad	30		DT, 1, 2, 4
Straw, flexible drinking	4		3
Tape, electrical, roll	1		3
Tape, masking, roll	1		2, 3
Tape, transparent, roll/dispenser	10		1, 2, 3, 4
Water source	varies		1

Non-Consumable			
Item Description	Quantity for a class of 30	Optional	Chapter
1–1.5 kg of washers, pennies, or other objects of uniform mass	1		1
Bead, plastic, at least 6 mm with hole	4		3
Bottle, pill, with snap cap	15		3
Bottle, squeeze, 250 mL	4		3
Bottle, for water (1 L or smaller)	15		3
<i>Consumer Reports</i> magazine	1	optional	1
Light switch	15	optional	DT
Measuring spoon	10		1
Medicine dropper	10		1
Meterstick (or metric measuring tape)	10		2, 3, 4
Paper clips, any size, small box	1		2, 4
Pencil, sharpened (or craft stick: dowel or popsicle stick)	4		3
Plastic toy animal (or photo of same)	2–6		DT
Pushpin	12		3
Ruler, including metric measurement	10		1, 3
Scissors	15		3
Tacks, box	1	optional	2, 4

Tray, cafeteria-size	10		1
Tub, large (or wading pool)	1–10		3
Wood block, (2.5 × 10 × 20 cm); predrilled—0.75 mm hole drilled 2.5 cm from 10 cm side	10		3

Equipment			
Item Description	Quantity for a class of 30	Optional	Chapter
Balance	1		1
Beaker, plastic, large (or measuring cup)	10		1
Graduated cylinder, 100 mL	15		3
Stopwatch	10	optional	3
Timer	1	optional	4

Safety			
Item Description	Quantity for a class of 30	Optional	Chapter
Goggles, safety	30		2, 3
Mop and bucket (or towels)	1	optional	1, 3