

Grade 7 Nelson Science & Technology Perspectives 2009

Based on a classroom of 30 students

Item #	Description	Quantity Needed	Price
<i>*** All Science Education Investigations assume that the students and the teacher have adequate eye protection, aprons, and gloves when needed combined with common sense during the activity</i>			
573991-016	Safety Glasses - black frames	30	\$3.10
577927-016	Safety Goggles (chemical & splash)	30	\$3.70
571076-016	Disposable Lab Aprons, pkg of 100	1	\$34.45
1016978-016	Nitrile Gloves - non latex, box 100 Small	1	\$11.50

Investigation 1.3 Particle Theory

529624-016	100mL Beaker Pyrex Vista case of 12	2	\$31.80
521715-016	100mL Graduated Cylinder Pyrex box 12	1	\$97.00
1017513-016	Triple Beam balance - Frey 610g	3	\$85.00
571583-016	Hot Plate - Corning Scholar 170 CSA approved	6	\$156.00
525526-016	Stirring Rod, 15cm long, pak of 12	2	\$4.55
589353-016	Weighing papers 10cm x 10cm pkg 500	1	\$8.75
563630-016	Beaker Tongs with rubber jaws	15	\$6.65
	Salt - regular table	Local	
	Ice Cubes	Local	
	Water	Local	

Investigation 1.5 Identifying and Classifying Water

529686-016	Test tubes - Pyrex Vista box of 50 16x150	1	\$21.30
583629-016	Test tube rack - 12 hole, plastic	15	\$6.75
560761-016	Rubber stoppers, Solid, Size #1, 1lb bag	1	\$8.95
565579-016	Magnifying Glass, 8.5cm lens	15	\$5.30
529626-016	250mL Beaker Pyrex Vista case of 12	2	\$27.45
	Random samples of matter	Local	
	Water	Local	
	Spoon	Local	

Activity 2.4 Solubility

525526-016	Stirring Rod, 15cm long, pak of 12	2	\$4.55
529627-016	400mL Beaker Pyrex Vista, Case of 12	2	\$32.55
529624-016	100mL Beaker Pyrex Vista case of 12	2	\$31.80
1017386-016	Thermometer - white back, red spirit	15	\$4.95
531713-016	Graduated cylinder 50mL, Pyrex box of 12	1	\$74.00
1017513-016	Triple Beam balance - Frey 610g	3	\$85.00
589353-016	Weighing papers 10cm x 10cm pkg 500	1	\$8.75
JP-Kettle	Electric Kettle	1	\$49.95
	IceCubes	Local	
	Water	Local	
	Table Salt	Local	
	Epsom Salts	Local	

Activity 3.1 Separating Mechanical Mixtures

565579-016	Magnifying Glass, 8.5cm lens	15	\$5.30
529626-016	250mL Beaker Pyrex Vista case of 12	2	\$27.45
525526-016	Stirring Rod, 15cm long, pak of 12	2	\$4.55
573063-016	Watch Glasses 65mm pack of 12	2	\$6.85
1008688-016	Magnet - colour coded plastic covered pair	5	\$12.65
581208-016	Wash Bottles 250 mL package of 12	2	\$5.25
594306-016	Funnel - Plastic Utility style 4 oz capacity	15	\$1.60
599004-016	Filter Paper - 7cm box of 100	1	\$4.45
580276-016	Sieves - Set of 5 plastic and metal mesh	3	\$36.00
	Paper Towel	Local	
	Plastic Container (margarine, sour cream yogurt)	Local	
	Spoon	Local	

Investigation 3.6 Separating a Solution

1017513-016	Triple Beam balance - Frey 610g	3	\$85.00
571583-016	Hot Plate - Corning Scholar 170 CSA approved	6	\$156.00
525526-016	Stirring Rod, 15cm long, pak of 12	2	\$4.55
589353-016	Weighing papers 10cm x 10cm pkg 500	1	\$8.75
563630-016	Beaker Tongs with rubber jaws	15	\$6.65
529624-016	100mL Beaker Pyrex Vista case of 12	2	\$31.80
584259-016	Wire Gauze with Ceramic Centre 11cm pkg of 6	2	\$9.95
529626-016	250mL Beaker Pyrex Vista case of 12	2	\$27.45
521715-016	100mL Graduated Cylinder Pyrex box 12	1	\$97.00
	Water	Local	
	Salt	Local	
	Oven Mitts	Local	

Activity 3.8 Separating a Complex Mixture

580276-016	Sieves - Set of 5 plastic and metal mesh	3	\$36.00
1008688-016	Magnet - colour coded plastic covered pair	5	\$12.65
581208-016	Wash Bottles 250 mL package of 12	2	\$5.25
594306-016	Funnel - Plastic Utility style 4 oz capacity	15	\$1.60
599004-016	Filter Paper - 7cm box of 100	1	\$4.45
529624-016	100mL Beaker Pyrex Vista case of 12	2	\$31.80
	Paper Towel	Local	
	Plastic Container (margarine, sour cream yogurt)	Local	
	Spoon	Local	

Activity 4.3 Design Your Own Ecosystem

563390-016	Terrarium - Small, plastic with lid	15	\$5.85
565579-016	Magnifying Glass, 8.5cm lens	15	\$5.30
1017386-016	Thermometer - white back, red spirit	15	\$4.95
584199-016	Soil Sample - Clay 5lb	2	\$5.40
584202-016	Soil Sample - Sandy 5lb	2	\$5.40
584205-016	Gravel 1lb	4	\$2.80
JP-ACHARCL	Activated Charcoal for Aquariums	1	\$6.95
	Dry Leaves, Garden Soil,	Local	
	Earthworms, small Isopods	Local	
	Water	Local	

Investigation 5.6 Breaking Down the Waste Barrier

Spray Bottle	Local
Markers	Local
Scissors	Local
Rubber bands	Local
Many 2L plastic beverage bottles	Local
Garden Waste	Local
Raw Vegetable & Fruit Peels	Local
Aluminum Foil	Local
Plastic Wrap	Local
Masking Tape	Local
Window Screen mesh	Local

Investigation 7.4 Expanding and Contracting

529686-016	Test tubes - Pyrex Vista box of 50 16x150	1	\$21.30
583629-016	Test tube rack - 12 hole, plastic	15	\$6.75
1300562-016	Rubber Stopper - size 1 single hole, 1lb	1	\$8.95
564319-016	Vinyl Tubing 3/16ID x 50; roll	2	\$18.00
589530-016	Ball & Ring Apparatus -- Brass	6	\$10.20
576242-016	Food Colouring 4 colours 50mL each	2	\$6.95
529628-016	600mL Beaker, Pyrex Vista, case of 6	2	\$20.50
571583-016	Hot Plate - Corning Scholar 170 CSA approved	6	\$156.00
	Rubber Balloons	Local	

Investigation 8.2 The Transfer of Energy Through a Substance

571583-016	Hot Plate - Corning Scholar 170 CSA approved	6	\$156.00
525526-016	Stirring Rod, 15cm long, pak of 12	2	\$4.55
030-0442-016	Candle - paraffin, box of 10	2	\$7.60
57429-016	Retort Stand with 3 & 4" rings (complete set)	6	\$28.70
564856-016	Clamps - right angle	6	\$2.50
201-9653-016	Stopwatch - Mychron set of 6 with storage case	1	\$35.65
	Plastic rod	Local	
	Wooden Dowels	Local	
	Metal pieces	Local	
	Matches	Local	

Investigating Convection Currents

571583-016	Hot Plate - Corning Scholar 170 CSA approved	6	\$156.00
57429-016	Retort Stand with 3 & 4" rings (complete set)	6	\$28.70
529626-016	250mL Beaker Pyrex Vista case of 12	2	\$27.45
576242-016	Food Colouring 4 colours 50mL each	2	\$6.95
584295-016	Convection Chimmney Apparatus	1	\$27.70

Activity 10.5 Modelling Internal Forces

Sponges	Local
Markers	Local
Scissors	Local

Investigation 11.3 Factors Affecting a Structure's Ability to Support a Load

574286-016	Spring Scale - 2.5N, Blue	10	\$5.40
574289-016	Spring Scale - 5N, Green	10	\$5.40

574130-016	Spring Scale - 10N	10	\$5.40
574292-016	Spring Scale - 20N	5	\$5.40
574133-016	Spring Scale - 30N	5	\$5.40
595401-016	Brass Mass Set - Hooked	2	\$90.00
581199-016	String - pulley cord 150 feet, 45lb white nylon	2	\$5.95
201-9653-016	Stopwatch - Mychron set of 6 with storage case	1	\$35.65
	Stools	Local	
	Masking Tape	Local	
	Scissors	Local	
	File Folders - cut into pieces	Local	

Solve a Technological Problem 11.5 -- Design a Scaffold

574286-016	Spring Scale - 2.5N, Blue	10	\$5.40
574289-016	Spring Scale - 5N, Green	10	\$5.40
574130-016	Spring Scale - 10N	10	\$5.40
574292-016	Spring Scale - 20N	5	\$5.40
574133-016	Spring Scale - 30N	5	\$5.40
595401-016	Brass Mass Set - Hooked	2	\$90.00
	Tool set		
	Hand Drill with bit		
	Masking Tape	Local	
	Glue	Local	
	Rubber Bands	Local	

Solve a Technological Problem 11.7 Preventing a Structural Failure

Calculator	Local
Streamers	Local
Masking Tape	Local
Scissors	Local
Electric Fan	Local
Newspaper	Local



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