

Materials and Tools for Green Chemistry Invention Kit

This materials and tools list is sufficient for 20 students to complete the activities in teams of five students. This list can be used to purchase and/or supply materials and tools *without* purchasing the kit.

Materials and tools that are not supplied in the kit are listed separately and identified as *required* or *optional* to complete the activities.

All activities require safety items: safety glasses, and disposable latex-free gloves.

Materials and Tools (required; supplied in the purchased kit)	Size and Quantity	Notes
Coconut oil	12-15 oz.	All "edible" items will need labeled as "Not For Human Consumption"
Cornstarch	1 lb box	All "edible" items will need labeled as "Not For Human Consumption"
Potato starch	22oz.	All "edible" items will need labeled as "Not For Human Consumption"
Funnel	150ml Capacity, OD 101mm,85mm Stem, 5 funnels	
Container, Plastic, 66QT	66QT	
Syringe, Catheter Tip w/ cover	60mL, 5 syringes	
Plastic Bottles, Clear w/ Black Induction Lined Twist Top Caps	8oz, 5 bottles	
Aluminum Pie Plate	8", 10 plates	

Beaker, White Markings	250 mL, 24 beakers	
Clear Glass Woozy Bottles	12oz, 5 bottles	
Hot Mill Gloves, pair	5 pairs	
Hot Plate, Single Burner, Econo	5 plates	
Metal Measuring Spoons, Set/4	3 sets	
Plastic Stirring Rod	8", 5 rods	
Baking Soda Box	1 lb	All "edible" items will need labeled as "Not For Human Consumption"
Filter Paper	18cm, 100pk	
Food Coloring	4 color pack	All "edible" items will need labeled as "Not For Human Consumption"
Guar Gum Powder, 1lb	1lb	All "edible" items will need labeled as "Not For Human Consumption"
Rubbing alcohol 91%	16oz	
Vegetable Oil	48oz	All "edible" items will need labeled as "Not For Human Consumption"

SORBITOL Solution USP 70% W/W Laxative	16 oz., 2 bottles	
Tapioca Flour	1lb	All "edible" items will need labeled as "Not For Human Consumption"
Plastic Wrap	200 sqft Roll, 4 rolls	
Vinegar, White	32 oz, 2 bottles	All "edible" items will need labeled as "Not For Human Consumption"
Pencil, Wax, Black	12pk	
Stainless Steel Geometric Shapes Cutter Set	24pk	
Safety Items (required; supplied in the purchased kit)	Description	Notes
Latex-free disposable gloves	1 box of 100; medium	
Safety glasses	22 regular	
Safety glasses	3 over prescription safety glasses	
Dust masks, disposable	22	

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Materials and Tools (optional; supplied in the purchased kit)	Size and Quantity	Notes
Clay Sculpting Tools	11 pieces, 2 sets	
Clay, Plastilina, Cream	2lb, 2 sets	
Materials and Tools (optional; not supplied in the purchased kit)	Size and Quantity	Notes
Tape	1 roll	