

Item list 3D Metal Alloy Heat Exchange

Please put everything in this list that you want to be physically kept in the kit. Please note that things that can mold or will expire quickly should be either provided by the teachers or have a substitute that will not get gross after the kit is packed away. *columns are optional (if you have the info available please fill in). If you have a very specific item in mind for your kits please put a link where I can find the item.

Item	Quantity (per kit)	Price (Per Item)*	Multiplier for Kit	Adjusted Price	Link *	Notes
assorted beads	1					
color pencils	6					
AM/3D printed samples						
Small hammers	12	10.99	2	21.98	https://www.amazon.com/Plastic-Hammer-Hou	6 pack
Large nails	12			0	walmart	
School glue	6			0	walmart	
Plastic wrap	1			0	walmart	
Foil	1			0	walmart	
Copper tubing	6	9.99	6	59.94	https://www.amazon.com/dp/B07QFNZQ7V?pd	
carbon				0	walmart	
balloons				0	walmart	
Steel wool and/or kitchen metal scrubbers				0	walmart	
Tin snips				0	walmart	
string					walmart	
c-clamps or vice grips to hold samples					walmart	
force or motion sensors or spring scales					Carolina Bio	
hydrochloric acid or sulfuric acid for testing metal reactivity					Carolina Bio	
pipettes						
beakers or test tubes						
safety glasses						
gloves						
tea light candles						
plastic cups						
Thermometers						
test tube stand						
Supplies for modeling alloys (could be required by students) modeling clay or playdough, beads or marbles of various sizes, nuts or washers of various sizes, beans or other food items of various sizes.						
Silver Nitrate						
copper sulfate						
metal strips						
metal activity series						
sulfur						
lead						
stamped metal discs						
60 mL syringe						
alcohol burner stand						
crucible with lid 30 mL						