

**High School - Design for Engineering
Units 5-8 Materials**

Description	Size	Qty./Student	Qty./Kit	Per Student Cost	Per Kit Cost	Totals
Unit 5 - Systems (Alternative Activity)						
Chaotic Pendulum - One set per class kit						
Ceramic Magnets			7		\$4.30	
Masonite Board	6" x 6" x 1/4"		1		\$0.50	
Metal rod	10" x 1/8"		1		\$0.70	
Wooden Dowel	4" x 1/4"		1		\$0.05	
						\$5.55
Linear Accelerator - 10 sets for class kit						
Neodymium Magnets			40		\$35.20	
Ball bearings - Steel	5/8"		90		\$46.05	
Rulers - Wooden	12"		10		\$2.90	
Electrical Tape	1 roll		1		\$0.50	
						\$84.65
Unit 6 - Research & Development (Airplane)						
Styrofoam Block	2" x 3" x 10"	1	20	\$0.40		
Styrofoam Blank	1/2" x 5" x 24"	1	20	\$0.25		
Landing Gear		1	20	\$0.83		
Wheels		2	40	\$0.78		
Propeller	3-blade	1	20	\$3.25		
Electric Motor		1	20	\$0.70		
Telephone Wire	light guage	6'	120	\$1.00		
Sandpaper	1/4 sheet of 100 grit	1	20	\$0.10		
				\$7.31		\$146.20
Unit 7 - Techonology and Society Interaction						
No additional materials needed for this unit.						
Unit 8 - Materials Testing - Concrete Testing						
Paver Locking Sand	Fine aggregate		40 lb.	Did not purchase due to bulk		
Pea Rock			50 lb.			
Portland Cement			1 bag			
Styrofoam Containers	Hotdog size		20			
Packaging/Container Costs						\$15.00
Total Cost of 20 Student Classroom Sets (Units 5-8)						\$236.40