

# Chapter Materials and Equipment

The following tables contain lists of materials and equipment needed to do all the experiments. The tables are organized as follows:

- Durables
- Consumables
- Additional Items Needed Not Supplied

**Durables** are items that are not consumed during an experiment. They can be used several times.

**Consumables** are items that are used up during each class and must be resupplied for future classes. Both the durables and consumables are broken down by group and by class. A group consists of four students. While the group size will be determined by the teacher based upon logistics and availability of equipment, the information is based upon recommended group size of four students. Items listed per class are based on a class size of 40 students.

**Additional Items Needed Not Supplied** consists of items that are needed to complete the sections, but are not supplied by *It's About Time*®.

The left-hand column gives the section number(s) in which each item will be used. The second column provides information needed for ordering the particular item. The third column gives the item description. The fourth column will indicate quantity, based on either group or class needs. The final column provides a space for you to fill in your total item quantity. You will notice certain rows are shaded and have an asterisk in the last column. This is to indicate a duplicate item listing, based on the needs of different sections. You will not need to figure the items in the shaded rows into your total items needed, as they have already been accounted for in the corresponding non-shaded row.

The *Materials and Equipment* lists are broken down into either PLAN A or PLAN B corresponding to the *Pacing Guide*.

PLAN A					
Section	Item No.	Durables	Group (4 Students)	Class	Total Items Needed
1, 3, 4	MS-0354	Magnet, large bar	2 per group		
1, 2, 4	CP-6081	Compass	1 per group		
1, 2, 3, 4, 5	SS-1281	Scissors	1 per group		
1, 2, 3, 4	GH-7704	DC hand-operated generator	1 per group		
1, 4	CL-6002	Alligator clip leads (singles)	2 per group		
1	LS-6960	Base for mini-light bulbs	1 per group		
2, 4	NS-7613	Nail, 12d	1 per group		
3	MS-1886	Magnet, ceramic ring	1 per group		
3	PS-7620	Safety pin, large	2 per group		
4	TS-7601	Tube, cardboard, 1 x 4	1 per group		
4, 5	GH-0001	Galvanometer, 0-500 ma	1 per group		
1, 2	PA-7614	Paper clips, pkg 100		1 per class	
2	TS-6059	Spool of thread		1 per class	
3	RB-6108	Rubber band, #64, pack		1 per class	
5	AC-7600	AC/DC demonstration generator		1 per class	
6	TP-0100	Toothpicks, pkg 100		2 per class	

PLAN A (continued)					
Section	Item No.	Consumables	Group (4 Students)	Class	Total Items Needed
1, 2, 3, 4	SS-6078	Sandpaper, 60 grit	1 per group		
1	LS-6959	Mini-light bulb	2 per group		
2, 3	BS-1597	Battery, D-cell, alkaline	1 per group		
3	BS-1608	AA alkaline battery	1 per group		
1, 2, 3, 4	TS-2662	Tape, masking		6 per class	
1	MW-2460	Wire, #24, magnet, 60-ft roll		1 per class	
2	MW-2460	Wire, #24, magnet, 60-ft roll		1 per class	
3	MW-2460	Wire, #24, magnet, 60-ft roll		1 per class	
4	MW-2460	Wire, #24, magnet, 60-ft roll		1 per class	
2, 3, 4, 5	SS-6113	Straw, drinking, transparent, pkg 100		1 per class	
3	CS-6047	Styrene-foam cup, 12 ounce		40 per class	
Section	Item No.	Additional Items Needed Not Supplied	Group (4 Students)	Class	Total Items Needed
1		Piece of paper	1 per student		
1		Pencil	1 per student		

PLAN B					
Section	Item No.	Durables	Group (4 Students)	Class	Total Items Needed
1, 3	MS-0354	Magnet, large bar	2 per group		
4	MS-0354	Magnet, large bar		1 per class	*
2	CP-6081	Compass	1 per group		
1, 4	CP-6081	Compass		1 per class	*
1	SS-1281	Scissors		1 per class	*
2, 3, 5	SS-1281	Scissors	1 per group		
4	SS-1281	Scissors		1 per class	*
1	GH-7704	DC hand-operated generator		1 per class	*
2, 3	GH-7704	DC hand-operated generator	1 per group		
4	GH-7704	DC hand-operated generator		1 per class	*
1	CL-6002	Alligator clip leads (singles)		2 per class	*
4	CL-6002	Alligator clip leads (singles)		2 per class	*
1	LS-6960	Base for mini-light bulbs		1 per class	
2	NS-7613	Nail, 12d	1 per group		
4	NS-7613	Nail, 12d		1 per class	*
3	MS-1886	Magnet, ceramic ring	1 per group		
3	PS-7620	Safety pin, large	2 per group		
4	TS-7601	Tube, cardboard, 1 x 4		1 per class	
4	GH-0001	Galvanometer, 0-500 ma		1 per class	*

\* Please note duplicate item.

PLAN B (continued)					
5	GH-0001	Galvanometer, 0-500 ma	1 per group		
1, 2	PA-7614	Paper clips, pkg 100		1 per class	
2	TS-6059	Spool of thread		1 per class	
3	RB-6108	Rubber band, #64, pack		1 per class	
5	AC-7600	AC/DC demonstration generator		1 per class	
6	TP-0100	Toothpicks, pkg 100		2 per class	
Section	Item No.	Consumables	Group (4 Students)	Class	Total Items Needed
1	SS-6078	Sandpaper, 60 grit		1 per class	
2, 3	SS-6078	Sandpaper, 60 grit	1 per group		
4	SS-6078	Sandpaper, 60 grit		1 per class	
1	LS-6959	Mini-light bulb		2 per class	
2	BS-1597	Battery, D-cell, alkaline		1 per class	
3	BS-1597	Battery, D-cell, alkaline		1 per class	
3	BS-1608	AA alkaline battery	1 per group		
1, 2, 3, 4	TS-2662	Tape, masking		6 per class	
1	MW-2460	Wire, #24, magnet, 60-ft roll		1 per class	
2	MW-2460	Wire, #24, magnet, 60-ft roll		1 per class	
3	MW-2460	Wire, #24, magnet, 60-ft roll		1 per class	
4	MW-2460	Wire, #24, magnet, 60-ft roll		1 per class	
2, 3, 4, 5	SS-6113	Straw, drinking, transparent, pkg 100		1 per class	
3	CS-6047	Styrene-foam cup, 12 oz		40 per class	
Section	Item No.	Additional Items Needed Not Supplied	Group (4 Students)	Class	Total Items Needed
1		Piece of paper	1 per student		
1		Pencil	1 per student		

## Teacher Resources

### Blackline Masters

Available on the *Teacher Resources CD*.

### Chapter Supports

Title	Point of Use	Blackline Masters
<i>Standard for Excellence</i>	Chapter Challenge Introduction	7a