

Chapter 8 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 teacher, based upon logistics and availability of equipment, will determine the group size. 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 first 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 and fifth columns will indicate quantity, based on either group or class needs. The last 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	FS-0001	Rod, friction, plastic	1 per group		
1	WL-0404	Pad, wool	1 per group		
2	FI-0007	Film container, plastic (w/ top)	8 per group		
2	EL-4181	Scale, electronic, 0-1500 g, 0.1-g readability		4 per class	
3, 5	RS-2826	Ruler, metric (in./cm)	1 per group		
4	SP-1226	Spectrometer, cardboard	2 per group		
5	HS-0010	Coil, helical	1 per group		
5	LP-0002	Laser pointer, class 2	1 per group		
5	TF-0001	Tuning fork, single, 512 Hz	1 per group		
5	TR-0100	Transparency, diffraction grating, double slit, single	1 per group		
5	DH-9725	Diffraction grating, square, 5 cm x 5 cm	1 per group		
7	PS-5712	Shoe box, plastic	1 per group		
4	PS-6200	Power supply, spectrum tube		1 per class	

Section	Item No.	Durables	Group (4 Students)	Class	Total Items Needed
4	PS-6201	Spectrum tube, hydrogen		1 per class	
4	HS-0001	Spectrum tube, helium		1 per class	
4	NS-0001	Spectrum tube, neon		1 per class	
7	IC-1000	Cubes, interlocking, gram, pkg. of 1000		1 per class	
Section	Item No.	Consumables	Group (4 Students)	Class	Total Items Needed
1	ST-3400	Tape, transparent, adhesive	1 per group		
Mini Challenge	CM-0008	Markers, colored, set of 8		6 per class	
Mini Challenge	EP-1100	Easel pad, restickable, 25 in. x 30 in.		2 per class	
7, 9	GS-7706	Paper, graph, pkg. of 50		1 per class	
Section	Item No.	Additional Items Needed Not Supplied	Group (4 Students)	Class	Total Items Needed
1, 3, 5		Paper, single sheet	1 per group		
2, 3, 7		Pennies		600 per class	
3		Pencil	2 per group		
5		Access to a large area (to make waves with spring)	1 per group		
5		Access to a wall (to shine laser pointer)	1 per group		

NOTES

PLAN B					
Section	Item No.	Durables	Group (4 Students)	Class	Total Items Needed
1	FS-0001	Rod, friction, plastic	1 per group		
1	WL-0404	Pad, wool	1 per group		
2	FI-0007	Container, plastic, film (w/ top)		8 per class	
2	EL-4181	Scale, electronic, 0-1500 g, 0.1-g readability		4 per class	
3	RS-2826	Ruler, metric (in./cm)	1 per group		
5	RS-2826	Ruler, metric (in./cm)		1 per class	*
4	SP-1226	Spectrometer, cardboard	2 per group		
5	HS-0010	Coil, helical		1 per class	
5	LP-0002	Laser pointer, class 2		1 per class	
5	TF-0001	Tuning fork, single, 512 Hz	1 per group		
5	TR-0100	Transparency, diffraction grating, double slit, single		1 per class	
5	DH-9725	Diffraction grating, square, 5 cm x 5 cm		1 per class	
7	PS-5712	Shoe box, plastic	1 per group		
4	PS-6200	Power supply, spectrum tube		1 per class	
4	PS-6201	Spectrum tube, hydrogen		1 per class	
4	HS-0001	Spectrum tube, helium		1 per class	
4	NS-0001	Spectrum tube, neon		1 per class	
7	IC-1000	Cubes, interlocking, gram, pkg. of 1000		1 per class	
Section	Item No.	Consumables	Group (4 Students)	Class	Total Items Needed
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Mini Challenge	EP-1100	Easel pad, restickable, 25 in. x 30 in.		2 per class	
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1, 3, 5		Paper, single sheet	1 per group		
2, 3, 7		Pennies		600 per class	
3		Pencil	2 per group		
5		Access to a large area (to make waves with spring)		1 per class	
5		Access to a wall (to shine laser pointer)		1 per class	

* Please note duplicate item.

NOTES

CHAPTER 8