

Chapter 5 Materials and Equipment

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

- Multimedia Needed
- Durables
- Consumables
- Additional Items Needed Not Supplied

Durables are items which 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 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, 3, 7, 9	SM-1676	Meter sticks	1 per group		
1, 3	CS-3246	3" C-clamp	1 per group		
1, 3	WH-0500	500-g weight with hook	4 per group		
1, 3	PH-3070	Pulley with mount	1 per group		
1, 3, 4	GS-5100	Safety glasses, impact	4 per group		
1, 2, 3	CS-6047	Styrene-foam cup, 12 ounces	2 per group		
1, 3, 4, 5, 9	SS-1281	Scissors	1 per group		
2	HS-0100	Helical coil	1 per group		
2	SS-7779	Stopwatch	1 per group		
2, 5, 7, 8	RS-2826	Ruler, metric, in./cm	1 per group		
4	TS-0400	Large test tubes 20 x 150	4 per group		
6	CB-1414	Cardboard, 14" x 14"	2 per group		
5, 6	SS-6133	Mirror support	2 per group		

* Please note duplicate item.

Section	Item No.	Durables	Group (4 Students)	Class	Total Items Needed
5, 6, 7, 9	22-2000	Light bulb socket with switch and 40W bulb	1 per group		
5, 9	SS-6135	Posterboard, 11" x 14", white screen	1 per group		
6	MS-2114	Mirror, plane, 7.5 x 12.5 x 4 mm	2 per group		
6, 7, 8	RH-6131	Clear glass rod 4"- 8"	1 per group		
6, 7, 8	LP-0002	Laser pointer - class 2	1 per group		
6, 7, 8	RH-1000	Plastic rod holder	1 per group		
6	PM-0521	Protractor	1 per group		
7	LS-1000	Cylindrical mirror	1 per group		
8	AC-2279	Acrylic block	1 per group		
8	PR-0001	Right-angle prism	1 per group		
9	LS-1001	Convex lens 10 cm focal point	1 per group		
9	LS-7001	Convex lens 20 cm focal point	1 per group		
9	LS-6600	Light source for optical bench with battery holder	1 per group		
9	OH-1404	Optical bench apparatus	1 per group		
9	OT-0001	Overhead transparencies	1 per group		
9	WS-6136	Wood block to raise light source	3 per group		
10	LS-9000	Lamp, clip-on with shade		4 per class	
10	LS-4119	Stand for clip-on lamp		4 per class	
Section	Item No.	Consumables	Group (4 Students)	Class	Total Items Needed
1, 3	FL-0030	Fishing line - 30 lb test (55 yards)	1 per group		
2	TS-6120	Adding-machine tape, roll	1 per group		
5, 10	CB-1414	Cardboard, 14" x 14"	2 per group		
9	BS-1608	AA alkaline battery	1 per group		
7, 8	GS-7706	Graph paper, pkg 50		1 per class	
2	TS-2662	Tape, masking		6 per class	
2, 5, 7, 9	CS-5011	Card, unlined index, 3" x 5" pkg 100		1 per class	
4	SS-6113	Straw, drinking, transparent, pkg 100		2 per class	
10	BU-0001	Bulb - 25W White		1 per class	
10	BU-0002	Bulb - 25W Green		1 per class	
10	BU-0003	Bulb - 25W Blue		1 per class	
10	BU-0004	Bulb - 25W Red		1 per class	
Section	Item No.	Additional Items Needed Not Supplied	Group (4 Students)	Class	Total Items Needed
1, 2		Large area clear of obstructions	1 per group		
4		Access to water, 300 mL	1 per group		
5, 6, 7, 9, 10		Access to an electrical outlet	1 per group		
6, 7, 8		Paper	1 per group		
10		Large white screen		1 per class	
10		Acrylic or water-color paints (different colors)	6 per group		
10		Paper to paint on	2 per group		
10		Paint brush	1 per group		

* Please note duplicate item.

PLAN B					
Section	Item No.	Durables	Group (4 Students)	Class	Total Items Needed
1, 7	SM-1676	Meter sticks	1 per group		
3, 9	SM-1676	Meter sticks		1 per class	*
1	CS-3246	3" C-clamp	1 per group		
3	CS-3246	3" C-clamp		1 per class	*
1	WH-0500	500-g weight with hook	4 per group		
3	WH-0500	500-g weight with hook		4 per class	*
1	PH-3070	Pulley with mount	1 per group		
3	PH-3070	Pulley with mount		1 per class	*
1, 4	GS-5100	Safety glasses, impact	4 per group		
3	GS-5100	Safety glasses, impact		4 per class	*
1, 2	CS-6047	Styrene-foam cup, 12 ounces	2 per group		
3	CS-6047	Styrene-foam cup, 12 ounces		1 per class	*
1, 4	SS-1281	Scissors	1 per group		
3, 5, 9	SS-1281	Scissors		1 per class	*
2	HS-0100	Helical coil		1 per class	
2	SS-7779	Stopwatch		1 per class	
2, 5, 7	RS-2826	Ruler, metric, in./cm	1 per group		
8	RS-2826	Ruler, metric, in./cm		1 per class	*
4	TS-0400	Large test tubes 20 x 150	4 per group		
6	CB-1414	Cardboard, 14" x 14"	2 per group		
6	SS-6133	Mirror support	2 per group		
5	SS-6133	Mirror support		2 per class	*
6, 7	22-2000	Light bulb socket with switch and 40W bulb	1 per group		
5, 9	22-2000	Light bulb socket with switch and 40W bulb		1 per class	*
5, 9	SS-6135	Posterboard, 11" x 14", white screen		1 per class	
6	MS-2114	Mirror, plane, 7.5 x 12.5 x 4 mm	2 per group		
6, 7, 8	RH-6131	Clear glass rod 4" - 8"	1 per group		
6, 7, 8	LP-0002	Laser pointer - Class 2	1 per group		
6, 7, 8	RH-1000	Plastic rod holder	1 per group		
6	PM-0521	Protractor	1 per group		
7	LS-1000	Cylindrical mirror	1 per group		
8	AC-2279	Acrylic block	1 per group		
8	PR-0001	Right-angle prism	1 per group		
9	LS-1001	Convex lens 10 cm focal point		1 per class	
9	LS-7001	Convex lens 20 cm focal point		1 per class	
9	LS-6600	Light source for optical bench with battery holder		1 per class	
9	OH-1404	Optical bench apparatus		1 per class	

* Please note duplicate item.

Section	Item No.	Durables	Group (4 Students)	Class	Total Items Needed
9	OT-0001	Overhead transparencies		1 per class	
9	WS-6136	Wood block to raise light source		1 per class	
10	LS-9000	Lamp, clip-on with shade		4 per class	
10	LS-4119	Stand for clip-on lamp		4 per class	
Section	Item No.	Consumables	Group (4 Students)	Class	Total Items Needed
1	FL-0030	Fishing line - 30 lb test (55 yards)	1 per group		
3	FL-0030	Fishing line - 30 lb test (55 yards)		1 per class	
2	TS-6120	Adding-machine tape, roll	1 per group		
5, 10	CB-1414	Cardboard, 14" x 14"		2 per class	
9	BS-1608	AA alkaline battery		1 per class	
7, 8	GS-7706	Graph paper, pkg 50		1 per class	
2	TS-2662	Tape, masking		6 per class	
2, 5, 7, 9	CS-5011	Card, unlined index, 3" x 5" pkg 100		1 per class	
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10	BU-0001	Bulb - 25W White		1 per class	
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10	BU-0003	Bulb - 25W Blue		1 per class	
10	BU-0004	Bulb - 25W Red		1 per class	
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4		Access to water, 300 mL	1 per group		
5, 6, 7, 9		Access to an electrical outlet	1 per group		
10		Access to an electrical outlet		1 per class	
6, 7, 8		Paper	1 per group		
10		Large white screen		1 per class	
10		Acrylic or water-color paints (different colors)	6 per group		
10		Paper to paint on	2 per group		
10		Paint brush	1 per group		

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NOTES
