

Chapter 2 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

Multimedia contains all the software and content videos that are necessary to complete the sections. All the multimedia items needed will be included in the Multimedia DVD/CD Set. In addition to the Multimedia DVD/CD Set, other multimedia items are available such as the *ExamView*TM Test Generator and the Constructing Physics Understanding simulations.

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	ISBN	Multimedia	Group (4 Students)	Class	Total Items Needed
2	978-1-60720-041-3	Multimedia DVD/CD Set		1 per classroom	

Section	Item No.	Durables	Group (4 Students)	Class	Total Items Needed
1, 8	BS-7209	Ball, steel, 1 in. (diameter)	1 per group		
1	TR-0001	Track, plastic (for roller coaster)	1 per group		
1, 2, 6	RS-2826	Ruler, metric, 30 cm	1 per group		*
8	RS-2826	Ruler, metric, 30 cm	2 per group		
2, 5	TT-6100	Timer, ticker tape, AC	1 per group		
2, 5	SS-1281	Scissors	1 per group		
2, 5, 6, 8	SM-1676	Meter stick, wood	1 per group		*
9	SM-1676	Meter stick, wood	2 per group		
3	RS-2723	Ruler, plastic, flexible, 30 cm	1 per group		
3	GC-0001	Cart, dynamics	1 per group		
3	WH-9012	Weights, slotted, set	1 per group		
1, 3, 8	CS-3246	C-clamp, steel, 3 in.	1 per group		
4	PL-0001	Launcher, projectile	1 per group		
5	SH-7212	Ring stand, large	1 per group		
5	EX-0001	Clamp, extension	1 per group		
5	HO-0002	Holder, right angle, cast iron	1 per group		
5, 7, 9	CM-1108	Calculator, basic	1 per group		
5, 6	WS-6910	Washer, 3/4 in. (outside diameter) x 5/16 in. (inside diameter)	2 per group		
5, 6, 7	WS-0376	Weight, slotted, 100 g	10 per group		
6, 7	SS-2304	Scale, spring, 0-20 N	2 per group		
7	SS-7209	Surface, felt, rough, 6 in. x 36 in.	1 per group		
7	BH-9871	Box, friction, 5 3/4 in. (length) x 3 3/4 in. (width) x 3 in. (depth) (with hook)	1 per group		
8	SR-0020	Ramp, starting, 20-degree angle	1 per group		
4, 5	BS-0790	Ball, tennis		1 per class	
5	TH-2143	Model, trajectory		1 per class	
5	FW-0002	Weight, fishing, small		7 per class	
5	PH-6816	Timer, photogate (with electromagnet)		1 per class	
6	SH-7708	Board, roller, Reaction Force (skateboard)		2 per class	

* Please note duplicate item.

Section	Item No.	Consumables	Group (4 Students)	Class	Total Items Needed
1, 8	MS-1425	Pen, marking, felt tip	1 per group		
2, 5	TH-2653	Ticker tape, roll	1 per group		
2	GL-1146	Glue stick	1 per group		
1, 3, 8, 9	TS-2662	Tape, masking, 3/4 in. x 60 yds		6 per class	
5	NS-1210	Notes, sticky, pad, 3 in. x 3 in.		3 per class	
5	SS-7722	String, cotton, ball		1 per class	
8	CS-5011	Cards, index, unlined, 3 in. x 5 in., pkg. of 100		1 per class	
Section	Item No.	Additional Items Needed Not Supplied	Group (4 Students)	Class	Total Items Needed
3, 7		Access to a flat surface (such as a table, floor or other open space)	1 per group		
3		Can or bottle (with less mass than the dynamics cart)	1 per group		
3, 4, 8		Coins (pennies, nickels)	5 per group		
4, 5		Chalkboard		1 per classroom	
4, 5		Chalk		1 per classroom	
4, 6		Chair (with wheels)		1 per classroom	
4, 6		Safety helmet		1 per classroom	
4, 6		Pads, knee		1 per classroom	
4, 6		Pads, elbow		1 per classroom	
4, 6		Stack of books		1 per classroom	
5		Probeware, photogate		1 per classroom	
5		Fence, picket		1 per classroom	
5, 9		MBL or CBL Technology (to record probeware activity)		1 per classroom	
5		Ladder		1 per classroom	
7		Shoe, athletic	1 per group		
9		Probeware, motion detector		1 per classroom	
9		Scale, bathroom		1 per classroom	
9		TV with VCR		1 per classroom	

* Please note duplicate item.

PLAN B

Section	ISBN	Multimedia	Group (4 Students)	Class	Total Items Needed
2	978-1-60720-041-3	Multimedia DVD/CD Set		1 per classroom	

Section	Item No.	Durables	Group (4 Students)	Class	Total Items Needed
1	BS-7209	Ball, steel, 1 in. (diameter)		1 per class	*
8	BS-7209	Ball, steel, 1 in. (diameter)	1 per group		
1	TR-0001	Track, plastic (for roller coaster)		1 per class	
1, 2	RS-2826	Ruler, metric, 30 cm		1 per class	*
6	RS-2826	Ruler, metric, 30 cm	1 per group		*
8	RS-2826	Ruler, metric, 30 cm	2 per group		
2, 5	TT-6100	Timer, ticker tape, AC		1 per class	
2, 5	SS-1281	Scissors		1 per class	
2, 5	SM-1676	Meter stick, wood		1 per class	*
6, 8	SM-1676	Meter stick, wood	1 per group		
9	SM-1676	Meter stick, wood		2 per class	*
3	RS-2723	Ruler, plastic, flexible, 30 cm	1 per group		
3	GC-0001	Dynamics cart	1 per group		
3	WH-9012	Weights, slotted, set	1 per group		
1	CS-3246	C-clamp, steel, 3 in.		1 per class	*
3, 8	CS-3246	C-clamp, steel, 3 in.	1 per group		
4	PL-0001	Launcher, projectile		1 per class	
5	SH-7212	Ring stand, large		1 per class	
5	EX-0001	Clamp, extension		1 per class	
5	HO-0002	Holder, right angle, cast iron		1 per class	
5, 7, 9	CM-1108	Calculator, basic	1 per group		
5, 6	WS-6910	Washer, 3/4 in. (outside diameter) x 5/16 in. (inside diameter)	2 per group		
5	WS-0376	Weight, slotted, 100 g		10 per class	*
6, 7	WS-0376	Weight, slotted, 100 g	10 per group		
6, 7	SS-2304	Scale, spring, 0-20 N	2 per group		
7	SS-7209	Surface, felt, rough, 6 in. x 36 in.	1 per group		
7	BH-9871	Box, friction, 5 3/4 in. (length) x 3 3/4 in. (width) x 3 in. (depth) (with hook)	1 per group		
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6	SH-7708	Board, roller, Reaction Force (skateboard)		2 per class	
Section	Item No.	Consumables	Group (4 Students)	Class	Total Items Needed
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1, 3, 8, 9	TS-2662	Tape, masking, 3/4 in. x 60 yds		6 per class	
5	NS-1210	Notes, sticky, pad, 3 in. x 3 in.		3 per class	
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4, 6		Stack of books		1 per classroom	
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