

Chapter 9 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® 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, 8 | 978-1-60720040-3 | Multimedia DVD/CD Set | | 1 per class | |
| Section | Item No. | Durables | Group (4 Students) | Class | Total Items Needed |
| 2 | HA-0120 | Hammer, small | | 4 per class | |
| 2, 4 | RS-2826 | Ruler, metric, in./cm | 1 per group | | |
| 2, 9 | FS-8061 | Feather, large | | 4 per class | |
| 3 | BS-7215 | Bottle (labeled Earth) | 2 per group | | |
| 3 | BS-7216 | Bottle (labeled Moon) | 2 per group | | |
| 3, 7 | SS-2303 | Spring scale, 0–10 N | 1 per group | | |
| 3, 7 | CO-0032 | Container, 32 oz (for sand) | 1 per group | | |
| 4 | PM-0521 | Protractor | 1 per group | | |
| 5, 6 | SM-1676 | Meter stick | 2 per group | | |
| 6 | BS-1401 | Ball, golf (w/ hole) | 2 per group | | |

| Section | Item No. | Durables | Group (4 Students) | Class | Total Items Needed |
|----------------------|----------|---|-----------------------|-------------|-----------------------|
| 6 | BS-0787 | Ball, super | 1 per group | | |
| 6 | PP-0001 | Ball, table tennis | 1 per group | | |
| 6 | SH-7212 | Ring stand, large | 2 per group | | |
| 6 | ST-0002 | Rod, aluminum, 3/8 in. x 12 in. (to act as crossarm) | 2 per group | | |
| 6 | HO-0002 | Holder, right angle, cast iron | 2 per group | | |
| 6 | BS-7217 | Ball, wood, drilled | 1 per group | | |
| 6 | BS-7218 | Ball, aluminum, drilled | 1 per group | | |
| 6 | BS-725T | Ball, steel, drilled | 1 per group | | |
| 6, 7 | SS-1281 | Scissors | 1 per group | | |
| 6, 9 | BS-1400 | Ball, golf | 1 per group | | |
| 7 | SA-0006 | Sand, fine, 5 lb | 1 per group | | |
| 7 | BH-9871 | Friction box | 1 per group | | |
| 8 | SM-1676 | Meter sticks | 1 per group | | * |
| 8 | SH-7212 | Ring stand, large | 1 per group | | * |
| 8 | HO-0002 | Holder, right angle, cast iron | 1 per group | | * |
| 8 | ST-0002 | Rod, aluminum, 1/8 in. x 12 in. (to act as crossarm) | 1 per group | | * |
| 8 | CM-7218 | Cylinder, hangable, set | 1 per group | | |
| 8, 9 | SS-7779 | Stopwatch | 1 per group | | |
| 9 | CF-0100 | Coffee filters | 25 per group | | |
| 9 | BS-6423 | Ball, golf, practice | 1 per group | | |
| 9 | BS-7213 | Racquet, badminton | | 1 per class | |
| 9 | SC-0001 | Shuttlecock | | 1 per class | |
| Section | Item No. | Consumables | Group (4 Students) | Class | Total Items Needed |
| 3, 6 | SS-7722 | String, ball | | 2 per class | |
| 5 | NS-1210 | Sticky notes, pad, 3 in. x 3 in. | | 5 per class | |
| 5 | CM-2701 | Marker, black | | 6 per class | |
| 6 | TS-2662 | Tape, masking | | 6 per class | |
| 7 | SS-7722 | String, ball | | 1 per class | |
| 7, 8 | 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 |
| 2 | | Book | 4 per group | | |
| 2, 4 | | Piece of paper | 4 per group | | |
| 2, 4, 9 | | Pencil | 8 per group | | |
| 3 | | Access to water | | 1 per class | |
| 5, 6 | | Access to clear area with a wall | 1 per group | | |
| 7 | | Access to a long table | 1 per group | | |
| Chapter Challenge | EP-1100 | Easel pad | 1 per group | | |
| Chapter Challenge | CM-0008 | Markers | 1 per group | | |

* Please note duplicate item.

| PLAN B | | | | | |
|---------|-------------------|--|--------------------|--------------|--------------------|
| Section | ISBN | Multimedia | Group | Class | Total Items Needed |
| 2, 8 | 978-1-60720-040-3 | Multimedia DVD/CD Set | | 1 per class | |
| Section | Item No. | Durables | Group (4 Students) | Class | Total Items Needed |
| 2 | HA-0120 | Hammer, small | | 4 per class | |
| 2, 4 | RS-2826 | Ruler, metric, in./cm | | 1 per class | |
| 2, 9 | FS-8061 | Feather, large | | 4 per class | |
| 3 | BS-7215 | Bottle (labeled Earth) | 2 per group | | |
| 3 | BS-7216 | Bottle (labeled Moon) | 2 per group | | |
| 3, 7 | SS-2303 | Spring scale, 0-10 N | 1 per group | | |
| 3, 7 | CO-0032 | Container, 32 oz (for sand) | 1 per group | | |
| 4 | PM-0521 | Protractor | | 1 per class | |
| 5, 6 | SM-1676 | Meter sticks | | 2 per class | |
| 6 | BS-1401 | Ball, golf (w/ hole) | | 2 per class | |
| 6 | BS-7217 | Ball, wood, drilled | | 1 per class | |
| 6 | BS-7218 | Ball, aluminum, drilled | | 1 per class | |
| 6 | BS-72ST | Ball, steel, drilled | | 1 per class | |
| 6 | ST-0002 | Rod, aluminum, 3/8 in. x 12 in. (to act as crossarm) | | 2 per class | |
| 6 | SS-1281 | Scissors | | 1 per class | * |
| 6 | BS-0787 | Ball, super | | 1 per class | |
| 6 | PP-0001 | Ball, table tennis | | 1 per class | |
| 6 | SH-7212 | Ring stand, large | | 2 per class | |
| 6 | HO-0002 | Holder, right angle, cast iron | | 2 per class | |
| 6, 9 | BS-1400 | Ball, golf | | 1 per class | |
| 7 | SS-1281 | Scissors | 1 per group | | |
| 7 | BH-9871 | Friction box | 1 per group | | |
| 7 | SA-0006 | Sand, fine, 5 lb | 1 per group | | |
| 8 | SH-7212 | Ring stand, large | | 1 per class | * |
| 8 | HO-0002 | Holder, right angle, cast iron | | 1 per class | * |
| 8 | SM-1676 | Meter sticks | | 1 per class | * |
| 8 | ST-0002 | Rod, aluminum, 3/8 in. x 12 in. (to act as crossarm) | | 1 per class | * |
| 8 | CM-7218 | Cylinder, hangable, set | | 1 per class | |
| 8, 9 | SS-7779 | Stopwatch | | 1 per class | |
| 9 | CF-0100 | Coffee filters | | 25 per class | |
| 9 | BS-6423 | Ball, golf, practice | | 1 per class | |
| 9 | BS-7213 | Racquet, badminton | | 1 per class | |
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* Please note duplicate item.

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| 6 | TS-2662 | Tape, masking | | 6 per class | |
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| 3 | | Access to water | | 1 per class | |
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| 7 | | Access to a long table | 1 per group | | |
| <i>Chapter Challenge</i> | EP-1100 | Easel pad | 1 per group | | |
| <i>Chapter Challenge</i> | CM-0008 | Markers | 1 per group | | |

NOTES
