

# Course Materials

In each chapter's teacher notes, a list of the necessary and optional materials for that chapter appears. This section contains compiled lists of all materials that do not come with the Teacher Guide, materials that will need to be purchased if they are not already available as existing classroom supplies.

## NECESSARY MATERIALS FOR FREQUENT USE

This first pair of lists includes necessary materials that will be relied on frequently for student use. Note that basic teacher supplies (such as copy paper and blank transparencies for copying resource pages) are not included in these lists, nor are basic student supplies such as paper, pencils, and erasers.

<b>Chapters 1 through 6</b>	<b>Chapters 7 through 12</b>
<ul style="list-style-type: none"><li>• Binders or spiral-bound notebooks (for students' Learning Logs)</li><li>• Poster paper and markers (for student presentations)</li><li>• Transparency sheets and overhead pens (for student presentations)</li><li>• Scientific calculators</li><li>• Graph paper</li><li>• Rulers or straightedges</li><li>• Markers or colored pencils (for drawings of algebra tiles)</li><li>• Algebra Models™ algebra tiles (by Classroom Products™ and available through CPM) OR cardstock to make paper algebra tiles from the resource pages provided in Chapter 2. Either set you choose needs to include overhead algebra tiles and a cornerpiece. See <a href="http://www.cpm.org">www.cpm.org</a> for more information.</li></ul>	<p>Same list as Chapters 1 through 6, but also including:</p> <ul style="list-style-type: none"><li>• Class set of graphing calculators or equivalent graphing technology</li><li>• Overhead graphing calculator display</li><li>• Poster graph paper</li></ul>

## NECESSARY MATERIALS FOR SPECIFIC LESSONS

This pair of lists includes materials that are equally necessary but are used for only one or two specific lessons. The materials are listed with the corresponding lesson numbers in parentheses.

Chapters 1 through 6	Chapters 7 through 12
<ul style="list-style-type: none"> <li>• Transparent tape (1.1.1)</li> <li>• Meter sticks or measuring tape (1.1.3)</li> <li>• Poster graph paper (1.1.3)</li> <li>• Sticky dots (1.1.3 and 3.1.4)</li> <li>• M&amp;Ms or other multi-colored candy (one small bag and one large bag) (2.2.3)</li> <li>• One small glass and one larger transparent container (2.2.3)</li> <li>• Class set of graphing calculators or equivalent graphing technology (3.1.3 and 4.1.7)</li> <li>• Index cards OR white-board pens/chalk (depending on activity chosen for 5.1.6; index cards also a choice in 6.2.1)</li> <li>• Dried beans (two kinds of contrasting colors, four pounds of one kind and one pound of the other) (5.2.3)</li> <li>• Small paper cups or film canisters (one per team) (5.2.3)</li> <li>• Strong, lunch-sized paper bags (one per team) (5.2.3)</li> </ul>	<ul style="list-style-type: none"> <li>• Calculator Based Ranger (CBR) or CBL with motion detector. See <a href="http://www.cpm.org/technology">www.cpm.org/technology</a> for more information. (7.2.1)</li> <li>• Scissors (7.3.2)</li> <li>• Sticky dots (9.2.1)</li> <li>• Long strips of paper (4-by-30 inches) (12.1.1)</li> <li>• Masking tape (12.1.1)</li> <li>• Birthday candles (one per class or per team) (12.4.1)</li> <li>• Matches (12.4.1)</li> <li>• Timers (one per class or per team) (12.4.1)</li> <li>• Scales, measuring to 0.01 gram (one per class or per team) (12.4.1)</li> <li>• Patty paper or waxed paper (one small piece per class or per team) (12.4.1)</li> <li>• Pushpins (12.4.4)</li> <li>• Thick cardboard pieces (at least 8.5-by-11 inches, one per team) (12.4.4)</li> <li>• String (cut slightly longer than 30 cm, one per team) (12.4.4)</li> </ul>

## OPTIONAL MATERIALS

This, the final pair of lists, includes optional materials that will enhance the lesson (provided in parentheses) but are not crucial for the lesson activity.

<b>Chapters 1 through 6</b>	<b>Chapters 7 through 12</b>
<ul style="list-style-type: none"><li>• Scissors (if having students make their own paper algebra tiles, or for closure activity #2 for each chapter)</li><li>• Glue sticks (closure activity #2 for each chapter)</li><li>• Masking tape (1.1.3)</li><li>• Overhead graphing calculator (3.1.3)</li><li>• Poster of calculator faceplate (3.1.3)</li><li>• Computer with Internet access and projection display (4.2.3)</li><li>• Empty aluminum cans (5.2.2)</li><li>• Scale (5.2.2)</li></ul>	<ul style="list-style-type: none"><li>• Glue sticks (closure activity #2 for each chapter)</li><li>• Grid transparency and index card (7.3.2)</li><li>• Yo-yo (8.3.3)</li><li>• 10-foot (or longer) rope (9.1.1)</li><li>• Index cards (10.1.6)</li></ul>