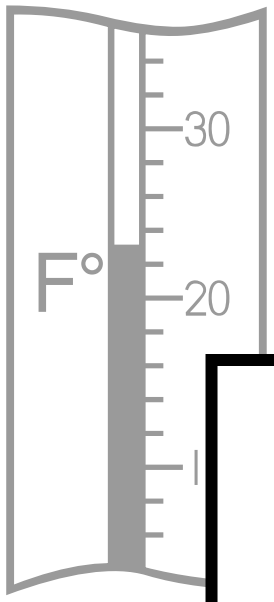
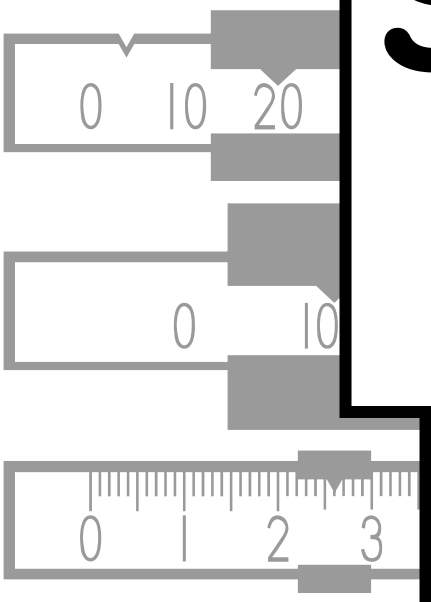
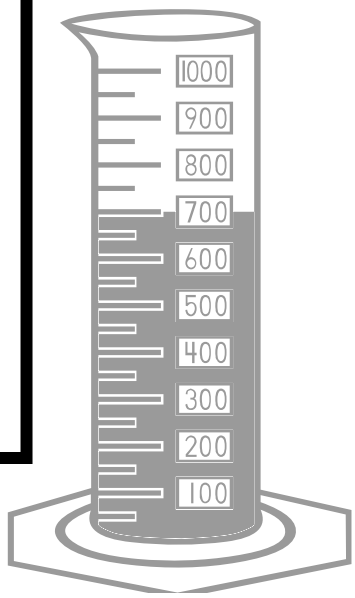
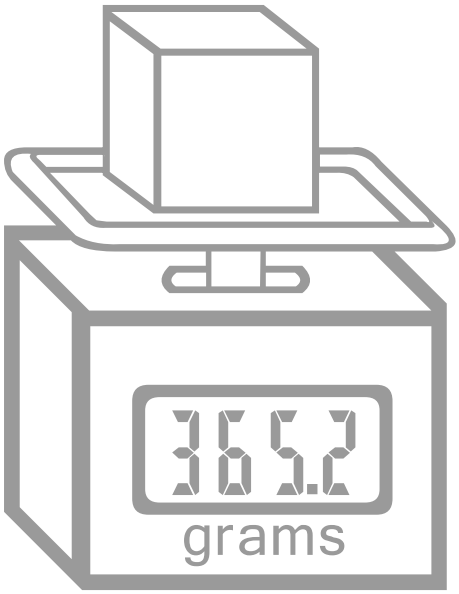


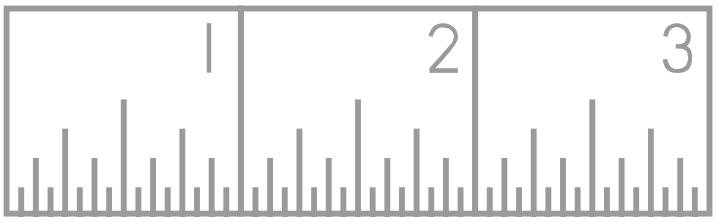
1,2,3 Science Fonts





User's Manual
Version 1





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Addendum

Welcome to 1,2,3 Science Fonts!

1, 2, 3 Science Fonts is an essential tool in the development of materials for the science classroom. Use them to form your own creative worksheets and teaching materials.

Single User License

If you purchased a single user license, you have permission to install and use **1, 2, 3 Science Fonts** on your school computer and your home computer. Please do not "share" with other computers or network this software.

School Site License

Purchase of a site license allows you to install **1, 2, 3 Science Fonts** on every computer in your school as well as each teacher's home computer. You may also install this software on a school network, but not on a district server.

District License

Purchase of a district license allows you to install **1, 2, 3 Science Fonts** on all school computers and district employee's home computers. The software may also be placed on a district network.

Publishing

Items created with 1, 2, 3 Science Fonts may be freely distributed. Items created for sale should have the acknowledgement "Some of the materials contained in this publication were created with the use of 1, 2, 3 Science Fonts" on the copyright page. There are no publishing fees. Please contact mathfonts@justusteachers.com for more information.

***Please do not "share" 1,2,3 Science Fonts in any manner inconsistent with your license.**

About the fonts…

1, 2, 3 Science Fonts has been specially created for science teachers. Every effort has been made to provide user-friendly fonts that will enhance your classroom teaching.

To make the fonts easy to find and use, all **1, 2, 3 Science Fonts** start with "123" and have been grouped together near the top of your font menu.

The following pages detail the keystrokes involved in each font. A detailed listing of each keystroke/symbol association is provided, followed by a short description of how each font is laid out on the keyboard.

Some of the specialty fonts (that place one keystroke on top of another) may require you to strike the space bar several times after you've typed a symbol in order to avoid inadvertently placing one symbol on top of another.

Most of the fonts will be easier to see in larger sizes (48 and higher). Some fonts may appear incomplete on your computer screen when using smaller sizes, but will print clearly.

Keep in mind that all the features that work on your other installed fonts will also work on all of your **1, 2, 3 Science Fonts**. Thus, the **Bold** feature will make your font bolder, Underline will underline your font, and *Italicize* will italicize your font!

Installation Instructions

*Once you have completed installation, it may be necessary to reboot your system before the fonts will appear properly.

Windows 95 and higher

1. Insert the CD-ROM into your disk drive.
2. Click **"Start"**, choose **"Settings"**, then choose **"Control Panel"**.
3. Double-click the **"Fonts"** icon to open it.
4. From the File menu, click **"Install New Font"**.
5. In the **"Drives"** menu, select the drive that contains the **123ScienceFonts** CD-ROM.
6. Select the **"PC Fonts"** folder in the Directory menu.
7. Select the fonts you wish to install.
8. Click **"OK"**. Then click **"Close"**.

Windows XP

1. Insert the CD-ROM into your disk drive.
2. Click **"Start"**, then choose **"Control Panel"**.
3. Click **"Appearance and Themes"**.
4. Select **"Fonts"** from the Task Pane on the left side of the window.
5. From the File menu, click **"Install New Font"**.
6. In the **"Drives"** menu, select the drive that contains the **123ScienceFonts** CD-ROM.
7. Select the **"PC Fonts"** folder in the Directory menu.
8. Select the fonts you wish to install.

Windows Vista

1. **Click "Start", then choose "Control Panel".**
2. **Click "Appearance and Personalization".**
3. **Click "Fonts".**
4. **From the File menu, click "Install New Font". If you don't see the File menu, press ALT.**
5. **In the "Add Fonts" dialog box, under "Drives", click the drive that contains the 123ScienceFonts CD-ROM.**
6. **Select the "PC Fonts" folder in the Folder menu.**
7. **Select the fonts you wish to install, then click "Install".**

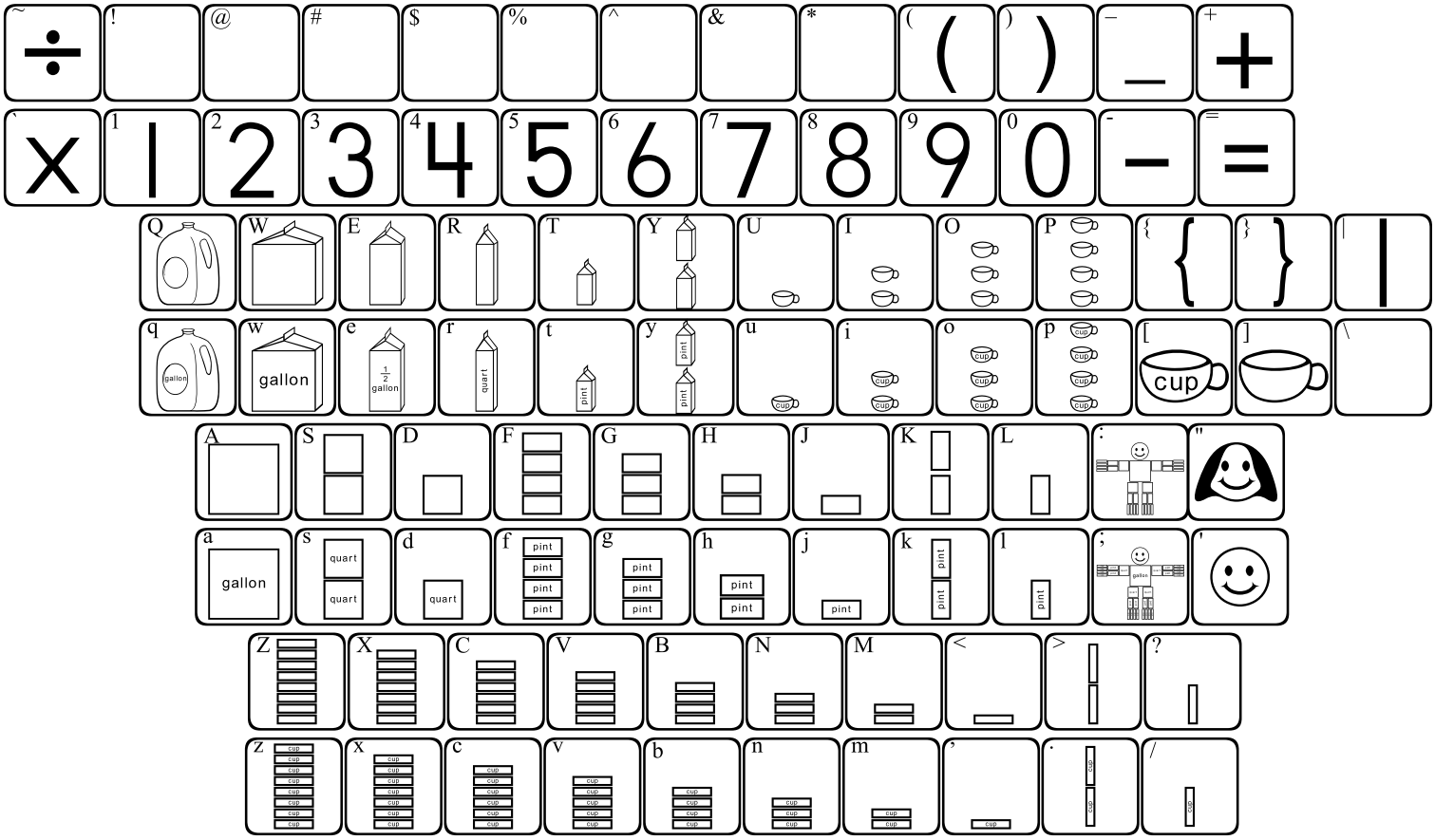
Macintosh OSX

1. Insert the CD-ROM into your disk drive.
2. Double-click the **"123ScienceFonts"** Icon.
3. Double-click the **"Mac OSX"** folder.
4. Drag the fonts that you wish to install to the ~/Library/Fonts folder on your hard drive, (NOT the System/Library/Fonts folder.)

Macintosh 7X – 9X

1. Insert the CD-ROM into your disk drive.
2. Double-click the **"123ScienceFonts"** Icon.
3. Double-click the **"Mac Fonts"** folder.
4. Drag the fonts that you wish to install to the System Folder icon on your hard drive.
5. The Macintosh will then inform you that the files must be stored in a specific place in the System Folder (System or Fonts). Click OK.

123Capacity1



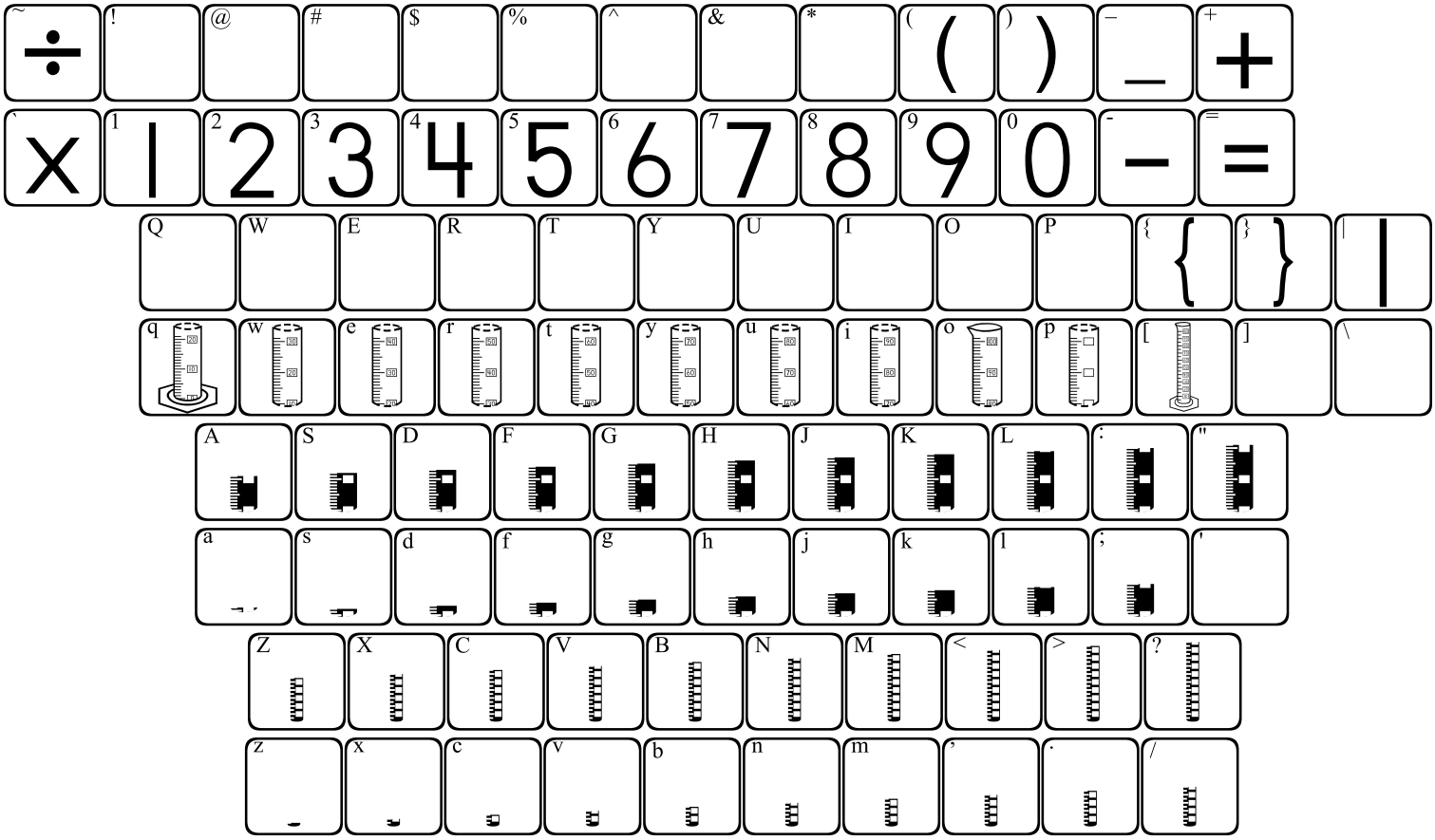
123Capacity1 contains customary capacity units of measurement.

The lowercase keys contain labeled images, while the uppercase keys contain the same images without labels.

The rectangular units are precisely sized to be proportionate when printed at the same font size. Four "quart" rectangles are exactly equal to the "gallon" square, two "pint" rectangles equal one "quart", and so on.

123Cylinders1

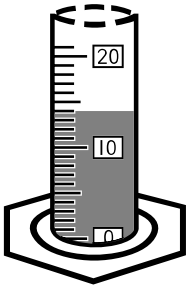
The cylinders in 123Cylinders1 are divided into increments of "10".



123Cylinders1 is a specialty font, meaning that a combination of keystrokes is necessary to form a complete image. You must first place a portion of a graduated cylinder by pressing any key on the first row of letters. The image will appear, but the cursor will not move. Then you can "fill" the cylinder by pressing any key on the second row of letters (for portions of a cylinder) or the bottom row of letters (for a whole cylinder).

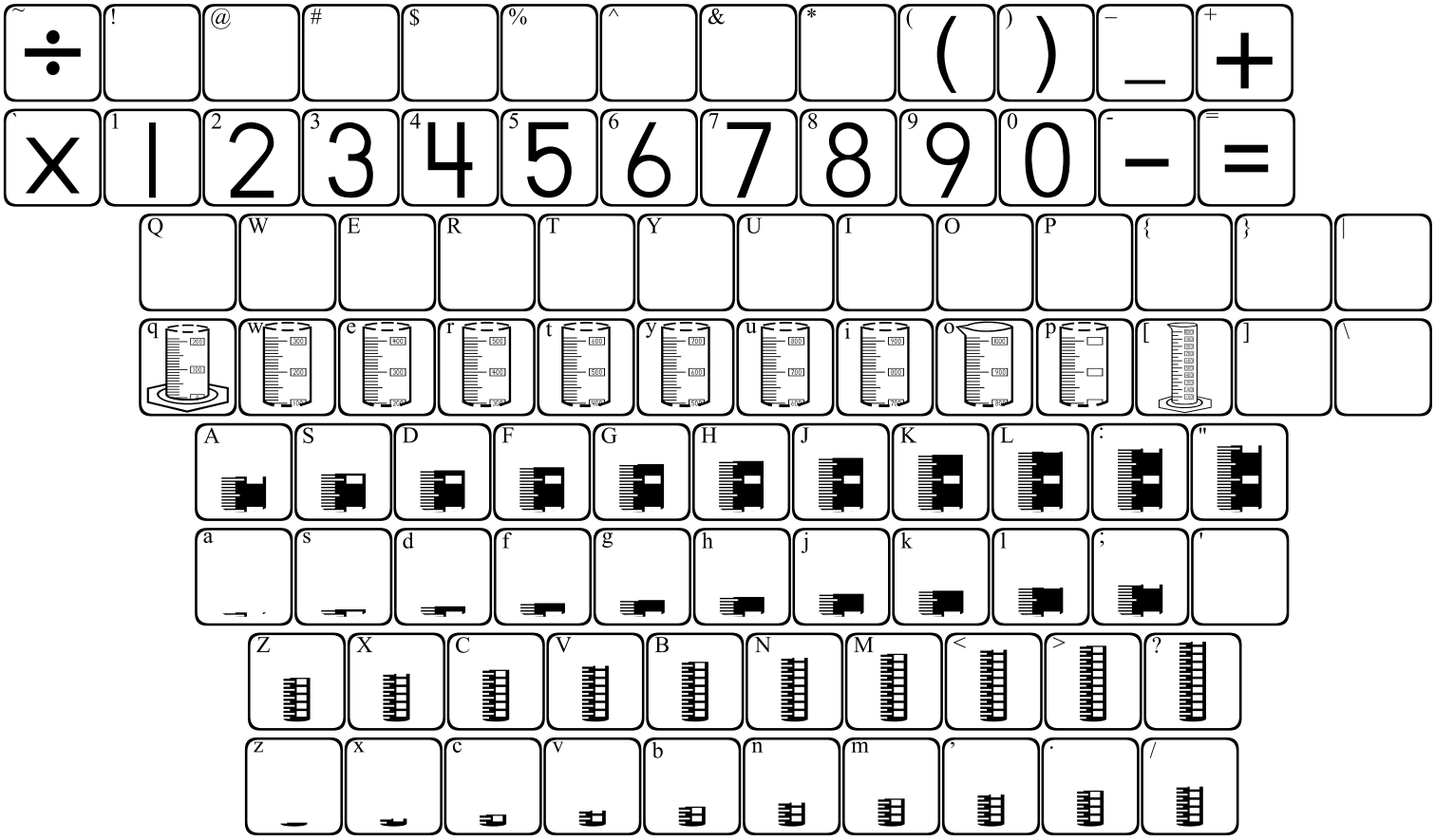
Letters "q" through "p" each show a portion of a cylinder, while the "[" (bracket) key shows a complete cylinder. The portions can only be filled by keys from the second row of letters (both uppercase and lowercase), while the complete cylinder can only be filled from the bottom row of letters.

If desired, the color of the font can be changed before the "liquid" is placed into the cylinder. For example, press "q" to place a cylinder portion, change the font color to gray, the press "F" to fill the cylinder with gray "liquid".



123Cylinders2

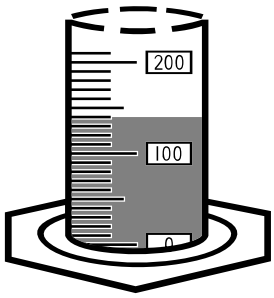
The cylinders in 123Cylinders2 are divided into increments of "100".



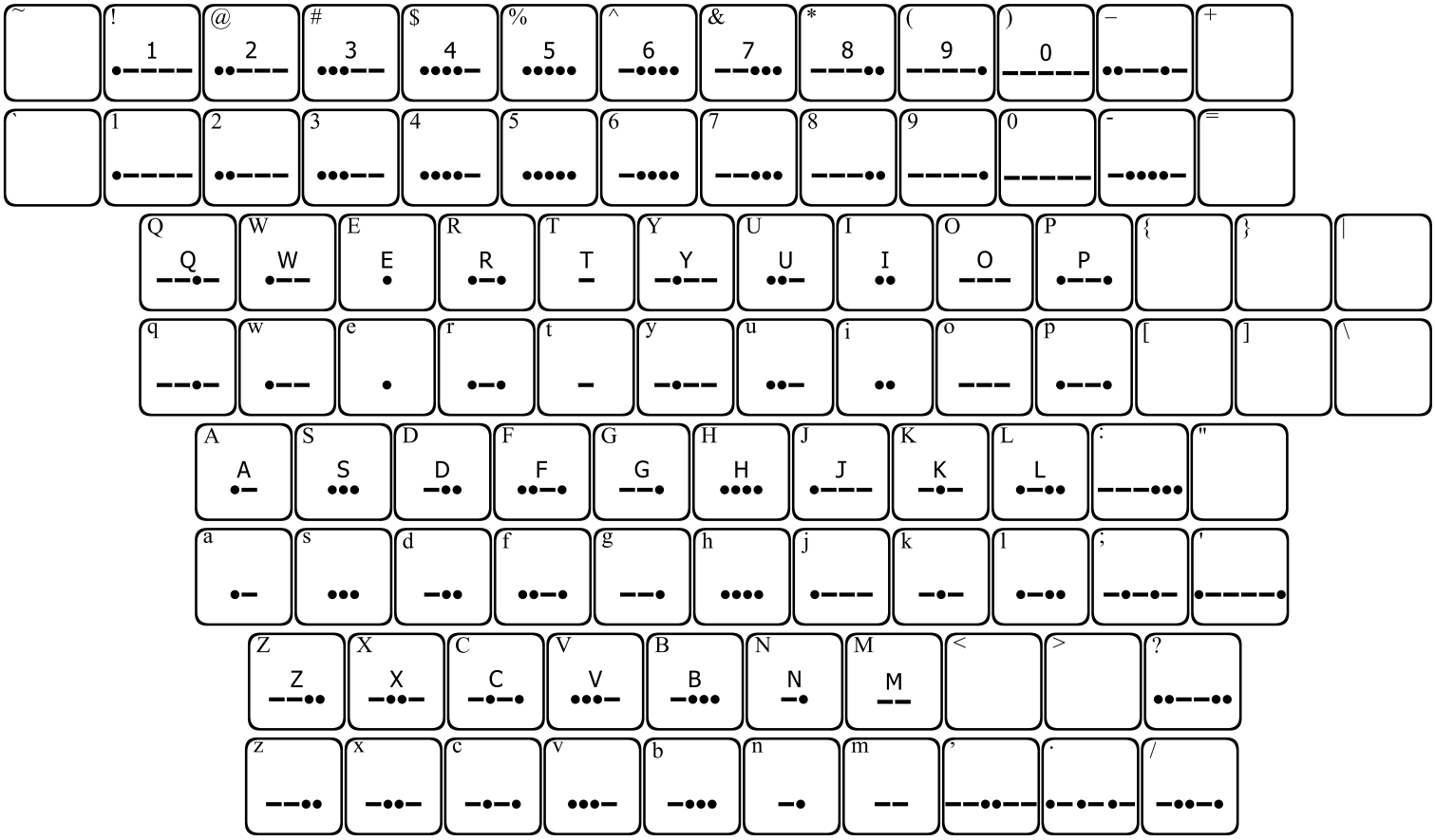
123Cylinders2 is a specialty font, meaning that a combination of keystrokes is necessary to form a complete image. You must first place a portion of a graduated cylinder by pressing any key on the first row of letters. The image will appear, but the cursor will not move. Then you can "fill" the cylinder by pressing any key on the second row of letters (for portions of a cylinder) or the bottom row of letters (for a whole cylinder).

Letters "q" through "p" each show a portion of a cylinder, while the "[" (bracket) key shows a complete cylinder. The portions can only be filled by keys from the second row of letters (both uppercase and lowercase), while the complete cylinder can only be filled from the bottom row of letters.

If desired, the color of the font can be changed before the "liquid" is placed into the cylinder. For example, press "q" to place a cylinder portion, change the font color to gray, the press "F" to fill the cylinder with gray "liquid".



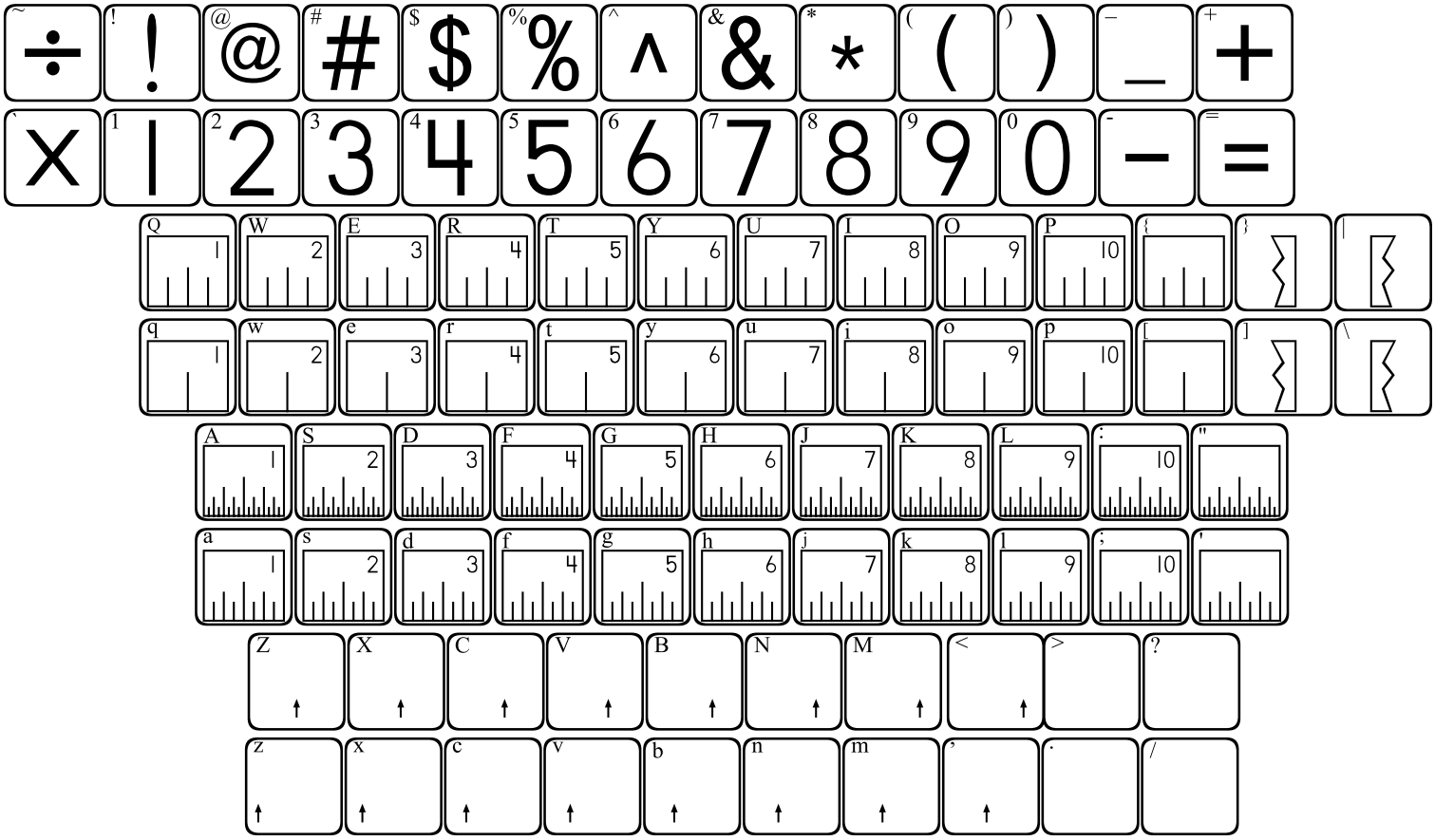
123MorseCode



123MorseCode is based upon symbols of the International Morse Code. The lowercase keys each contain their corresponding symbol, while the uppercase keys contain the symbol with the letter or number it represents.

It should be noted that there are Morse code symbols for punctuation. Many of them are included in this font. The "hyphen" key actually represents a "dash", and the single quote represents an "apostrophe".

123Rulers1



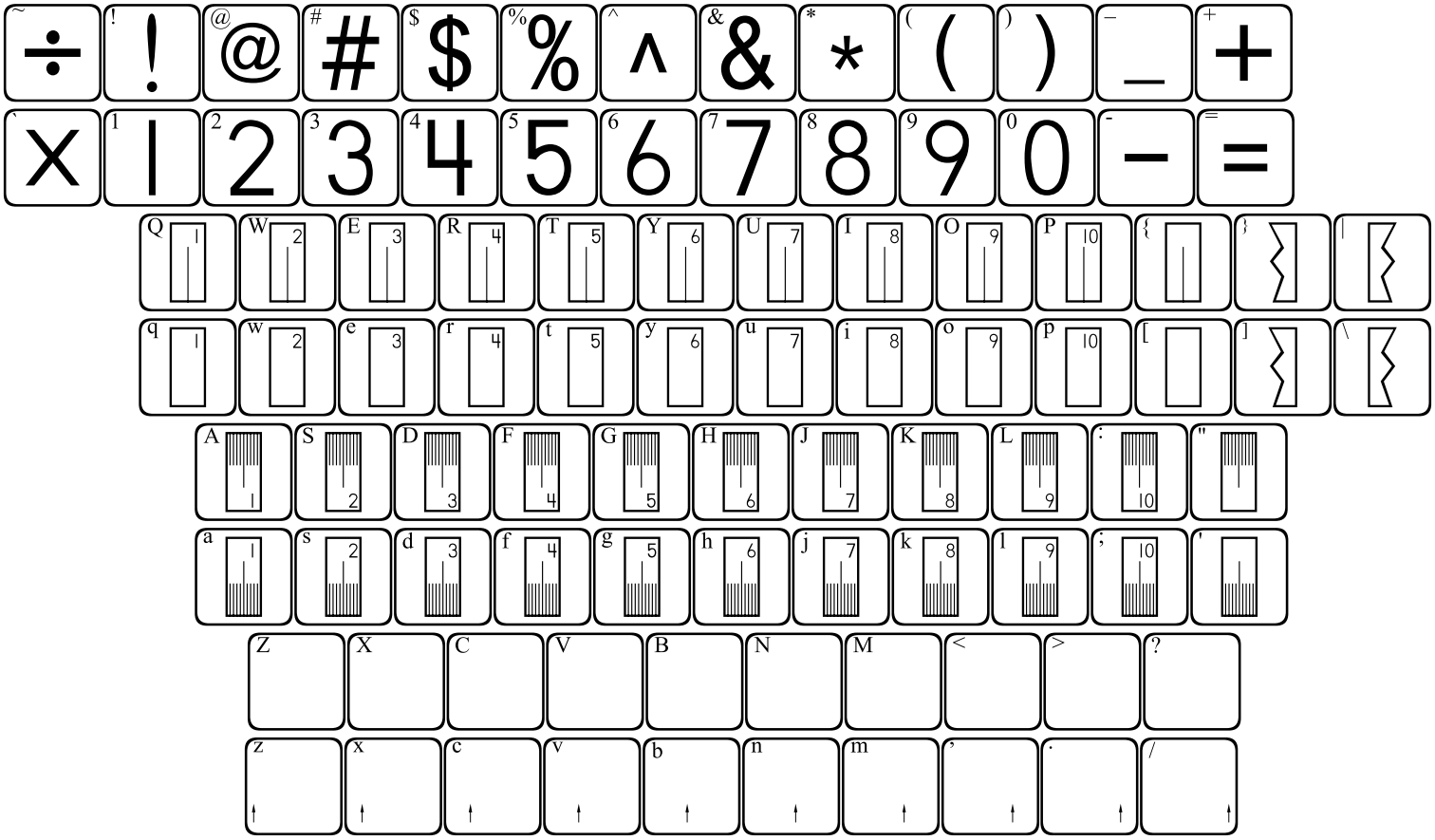
123Rulers1 can be used to create a variety of rulers measuring inches, subdivided in 4 ways. "q" row = $\frac{1}{2}$ inch "Q" row = $\frac{1}{4}$ inch
"a" row = 1/8 inch "A" row = 1/16 inch

Arrows can be pointed at any subdivision at any ruler. Press the appropriate arrow key on the "z" or "Z" row ***after*** you have placed a ruler piece.

z = 1/16 x = 1/8, 2/16 c = 3/16 v = 1/4, 2/8, 4/16
b = 5/16 n = 3/8, 6/16 m = 7/16 , = 1/2, 2/4, 4/8, 8/16

Z = 9/16 X = 5/8, 10/16 C = 11/16 V = 3/4, 6/8, 12/16
B = 13/16 N = 7/8, 14/16 M = 15/16 < = 2/2, 4/4, 8/8, 16/16

123Rulers2



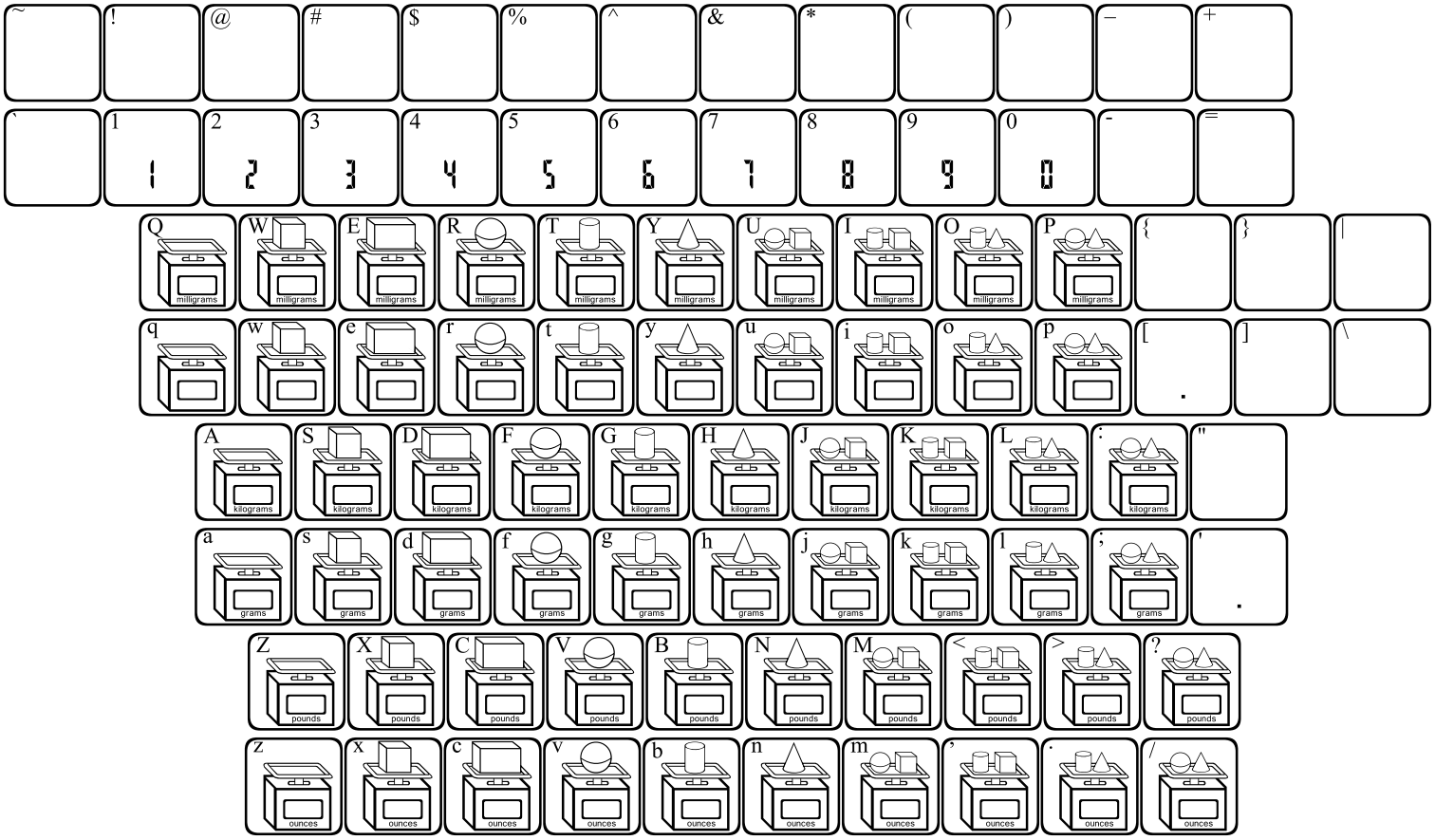
123Rulers2 can be used to create a variety of rulers based on centimeters. Rulers can be made with no subdivisions, or with subdivisions of tenths (millimeters).

Arrows can be placed to point to any subdivision. Press the appropriate arrow key on the "z" row ***after*** you have placed a ruler piece.

z = 1/10 x = 2/10 c = 3/10 v = 4/10 b = 5/10

n = 6/10 m = 7/10 , = 8/10 . = 9/10 / = 10/10

123Scales1

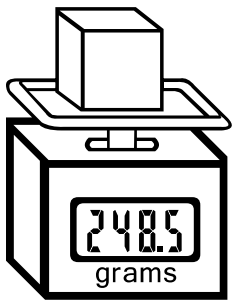


123Scales1 provides images of digital scales that include milligrams, grams, kilograms, ounces and pounds. The numbers on the face of the scale are completely customizable, and a decimal point can be included between any 2 numbers.

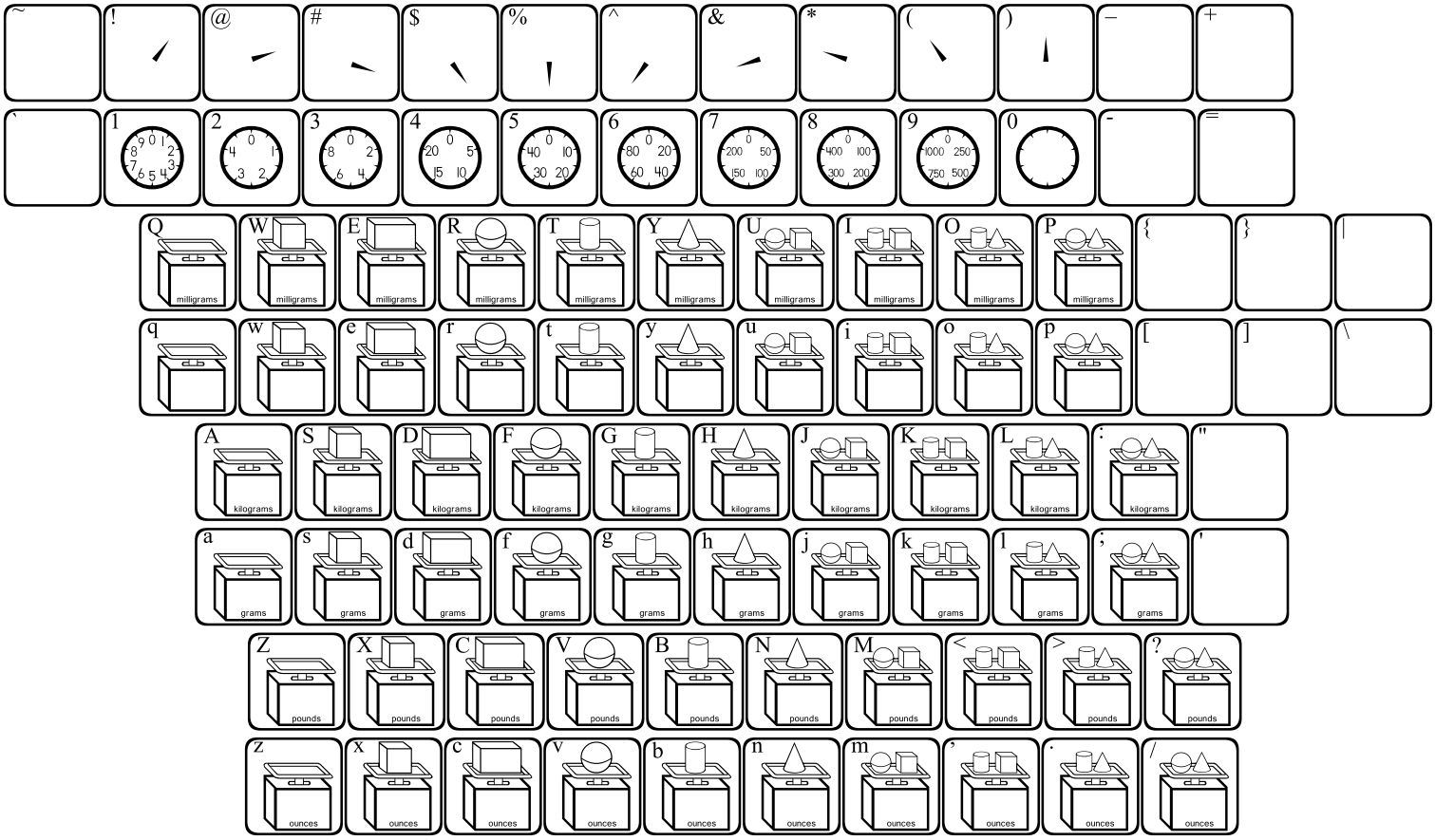
First choose a scale to place in your document and type the appropriate key. The cursor will appear partially through the scale. Type in numbers, and the cursor will advance. The "space" bar will advance the cursor the same distance as one number.

To place a decimal point, press the "[" (left bracket) or the "apostrophe" key. Both will place a decimal without advancing the cursor, allowing you to continue placing numbers after the decimal.

Example: To make a scale showing a cube with a mass of 248.5 grams, press the following keys: s 2 4 8 ' 5
It will then be necessary to press the space bar a few times to move the cursor past the interior of the scale.



123Scales2



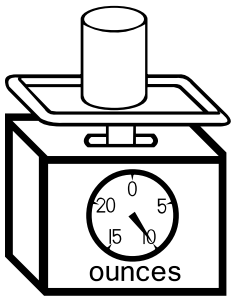
123Scales2 provides images of scales with customizable analog faces. Similar to 123Scales1, this font provides images of scales that measure in milligrams, grams, kilograms, ounces and pounds.

This font requires 3 keystrokes to create a complete scale. The steps are…

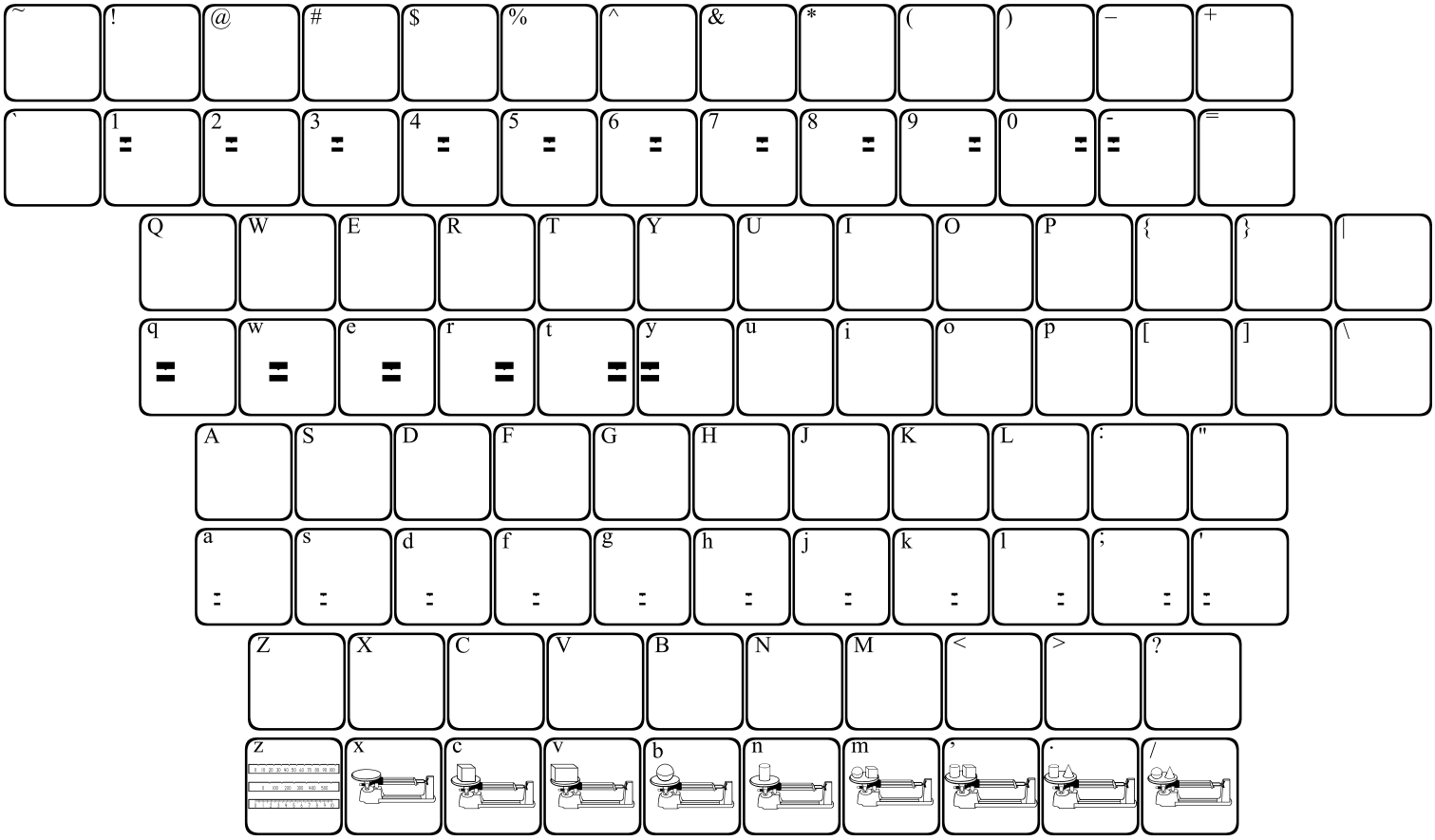
1. Place a scale by typing the key for the scale you have chosen.
2. Place a dial face on the scale by typing one of the number keys.
3. Place a hand on the dial by pressing "shift" while typing one of the number keys.

The cursor will not move through the scale until you type a hand onto the dial.

Example: To make a scale showing a cylinder with a weight of 10 ounces, press the following keys: b 4 $
It will then be necessary to press the space bar a few times to move the cursor past the interior of the scale.



123Scales3



123Scales3 is a highly specialized font that requires multiple keystrokes to show measurement on a triple beam balance. All of the lowercase letters on the bottom row (except the letter "z") provide images of a complete scale. The "z" key provides a close-up view of the 3 beams.

To imitate an actual triple beam balance, the top row of keys (the number row) contains tares (weights) for the top beam, the second row contains tares for the second beam, and the third row of keys contains tares for the bottom beam.

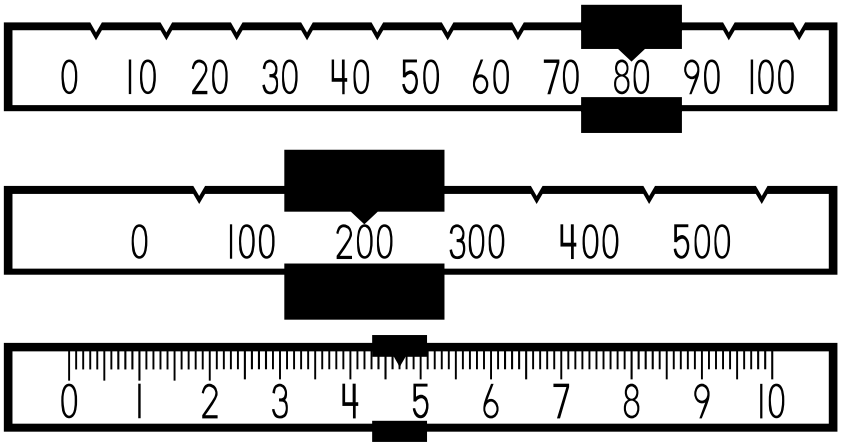
Please see the next page for further details and examples.

123Scales3

The steps for creating a customized measurement on the triple beam are:

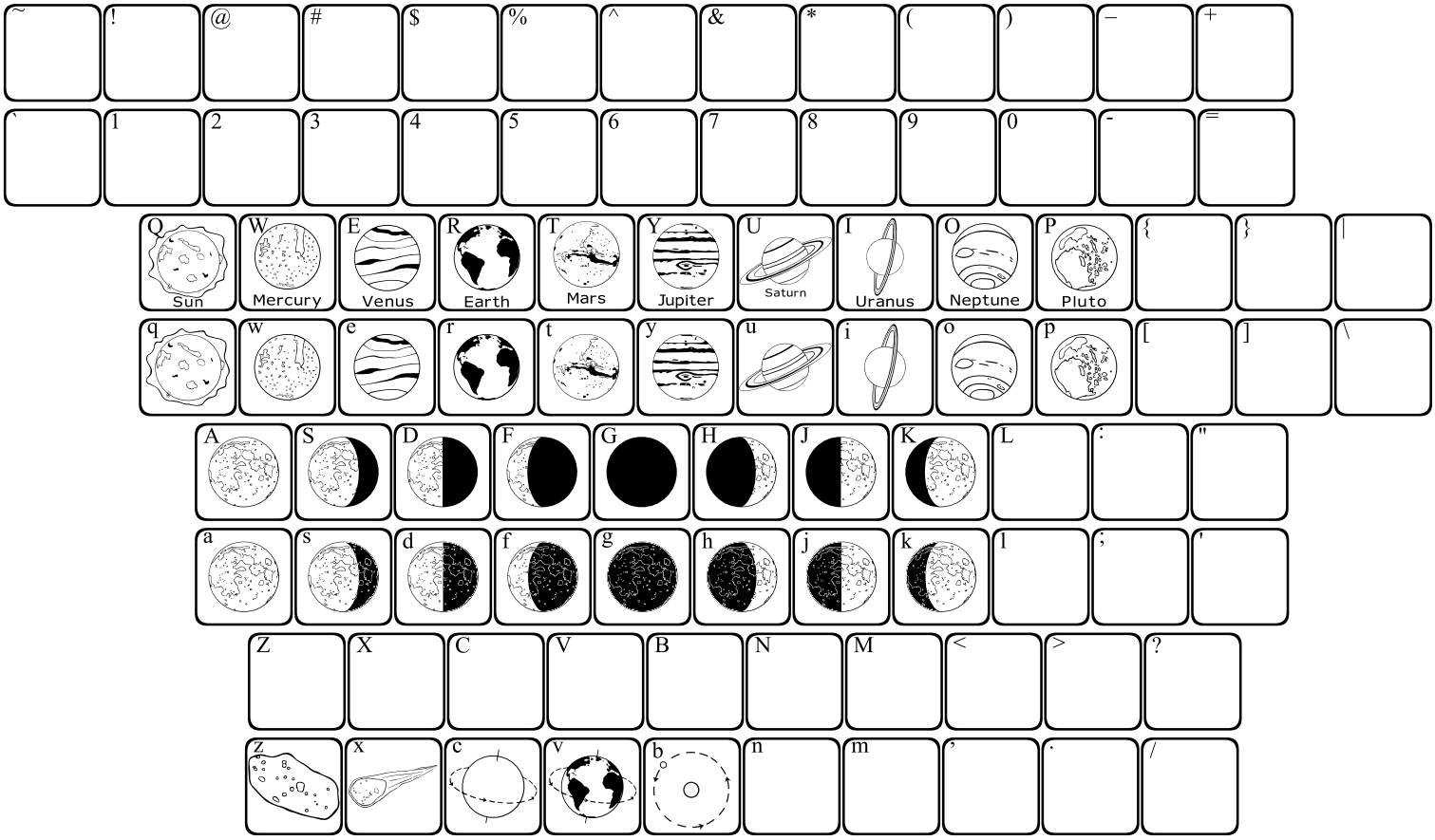
1. Press "z" to place the triple beams.
2. Press a key from the top row (1 through "hyphen") to place a tare on the top beam. The "1" key equals 10 grams, "2" = 20 grams, etc. The hyphen key places the tare in the zero position.
3. Press a key from the second row (q – y) to place a tare on the middle beam. "q" = 100 grams, "w" = 200 grams, and so on. The "y" key places the tare in the zero position.
4. Press a key from the third row (a – "apostrophe") to place a tare on the bottom beam. "a" = .1 gram, "s" = .2 grams, and so on. The "apostrophe" key places the tare in the zero position. Pressing the space bar BEFORE placing the last tare will advance the cursor 1 whole unit. Thus, if you wish to show 3.5 grams, FIRST press the space bar 3 times to advance to 3, then press "g" to place the tare on 3.5.

For example, to show a measurement of 284.7 grams, press the following keys: z 8 w "space" "space" "space" "space" j



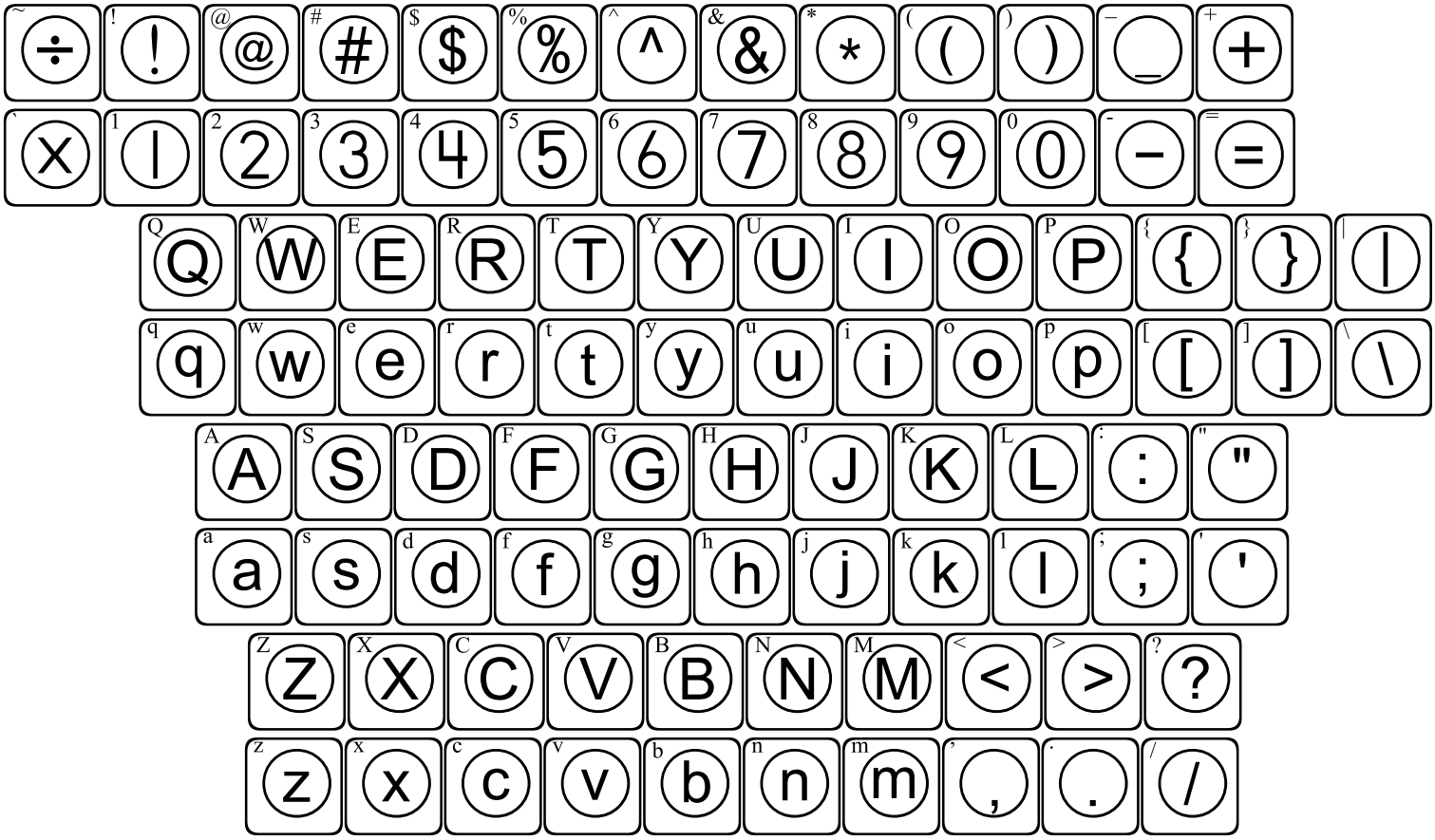
*Note – When placing the tares, the cursor does not move until you press the space bar or place the bottom tare. Therefore, you can place the middle tare first and the top tare second if you wish (place the 100's before the 10's).

123Space1



123Space1 provides images of the planets, the phases of the moon, an asteroid, a comet, and diagrams showing rotation and revolution.

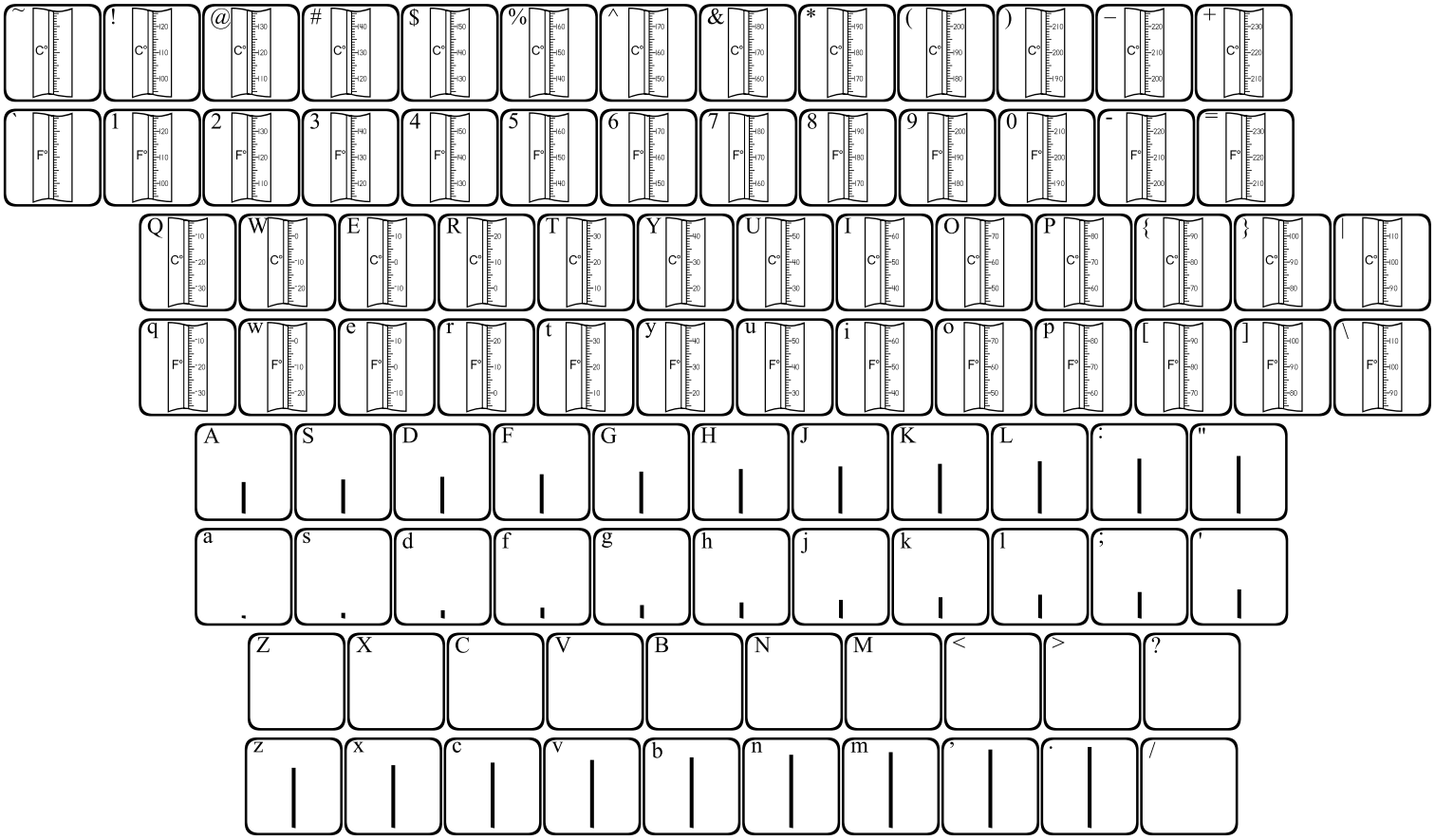
123Testing



123Testing can be used to create bubble-in style answer documents for multiple choice tests.

123Thermometer1

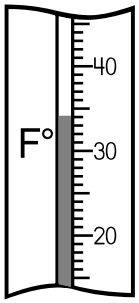
123Thermometer1-4 operate identically. The only difference between the four fonts is the increments by which the thermometers are subdivided.



123Thermometer1 contains thermometers that are subdivided by increments of 1. The lowercase keys of the top 2 rows will place Fahrenheit thermometers, while the uppercase keys will place Celsius thermometers. The bottom 2 rows are used to "fill" the thermometers. The "a" through "hyphen" keys fill the lower part of the thermometer, "A" through "quotes mark" fill the middle section, and "z" through "period" can fill the upper portion.

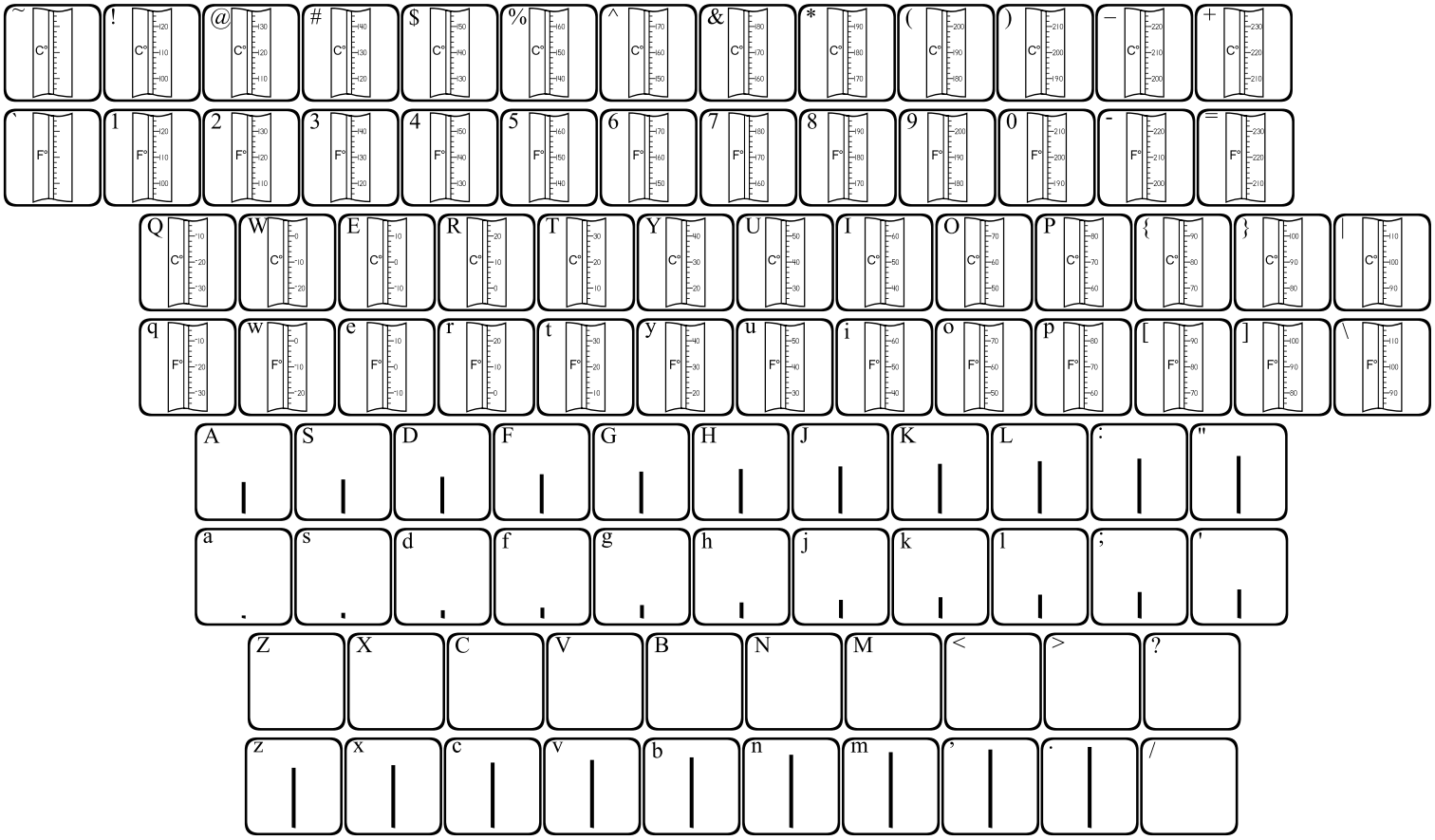
To place a thermometer, first press the key for the thermometer of your choice, then press one of the "fill" keys. Press the space bar 2 or more times to advance the cursor. Because the cursor does not move until you press "space", you can press several of the "fill" keys until you find the one that you want. Also, it is possible to change the color of the "fill" by changing the font color after you have placed the thermometer and before you press a "fill" key.

For example, to create a thermometer showing 34° F, press "y", change the font color to gray, and then press "L".



123Thermometer2

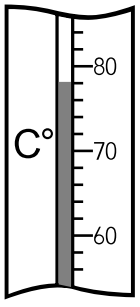
123Thermometer1-4 operate identically. The only difference between the four fonts is the increments by which the thermometers are subdivided.



123Thermometer2 contains thermometers that are subdivided by increments of 2. The lowercase keys of the top 2 rows will place Fahrenheit thermometers, while the uppercase keys will place Celsius thermometers. The bottom 2 rows are used to "fill" the thermometers. The "a" through "hyphen" keys fill the lower part of the thermometer, "A" through "quotes mark" fill the middle section, and "z" through "period" can fill the upper portion.

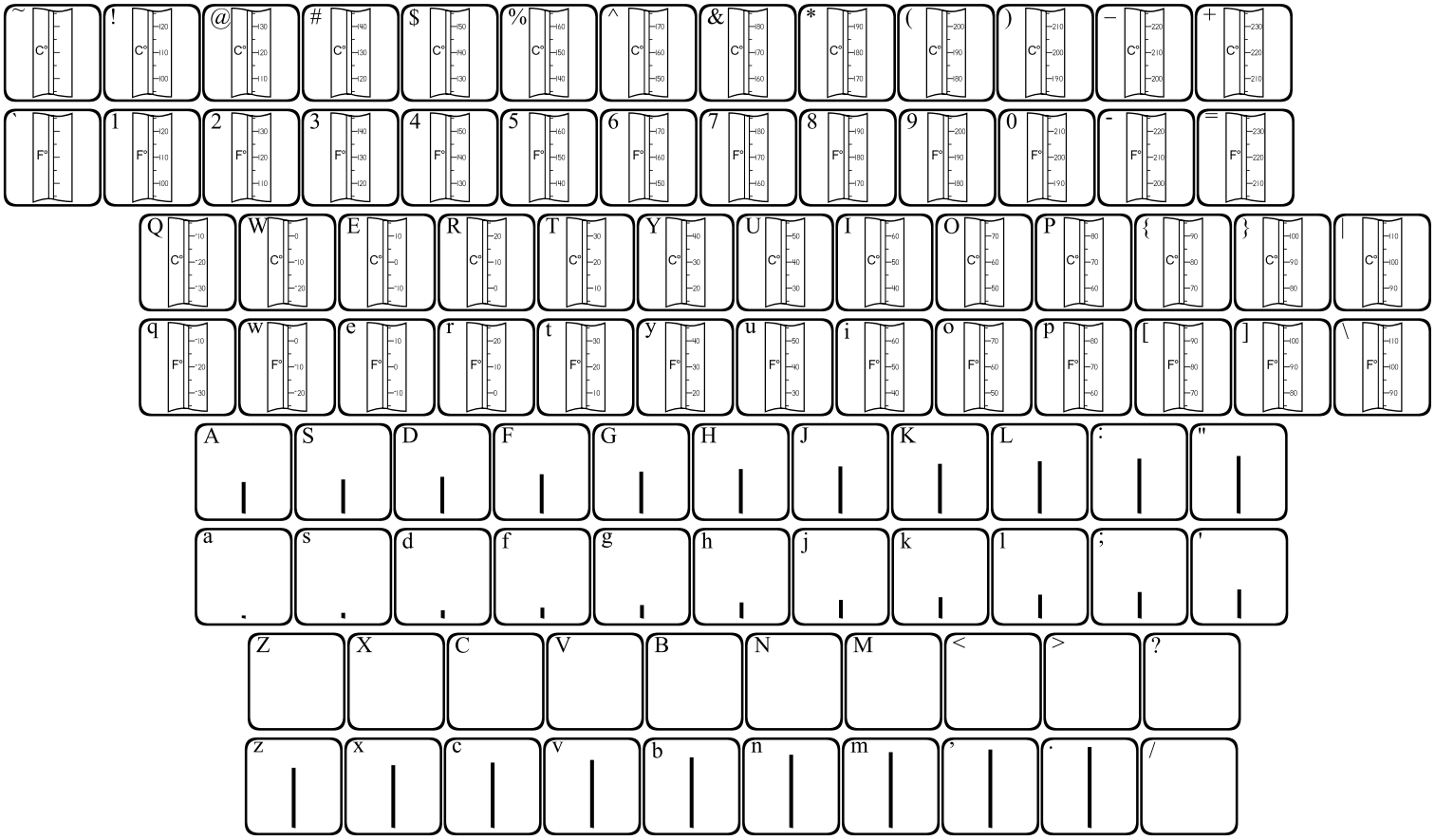
To place a thermometer, first press the key for the thermometer of your choice, then press one of the "fill" keys. Press the space bar 2 or more times to advance the cursor. Because the cursor does not move until you press "space", you can press several of the "fill" keys until you find the one that you want. Also, it is possible to change the color of the "fill" by changing the font color after you have placed the thermometer and before you press a "fill" key.

For example, to create a thermometer showing 78° C, press "P", change the font color to gray, and then press "x".



123Thermometer3

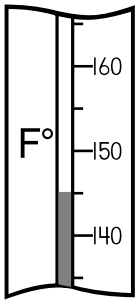
123Thermometer1-4 operate identically. The only difference between the four fonts is the increments by which the thermometers are subdivided.



123Thermometer3 contains thermometers that are subdivided by increments of 5. The lowercase keys of the top 2 rows will place Fahrenheit thermometers, while the uppercase keys will place Celsius thermometers. The bottom 2 rows are used to "fill" the thermometers. The "a" through "hyphen" keys fill the lower part of the thermometer, "A" through "quotes mark" fill the middle section, and "z" through "period" can fill the upper portion.

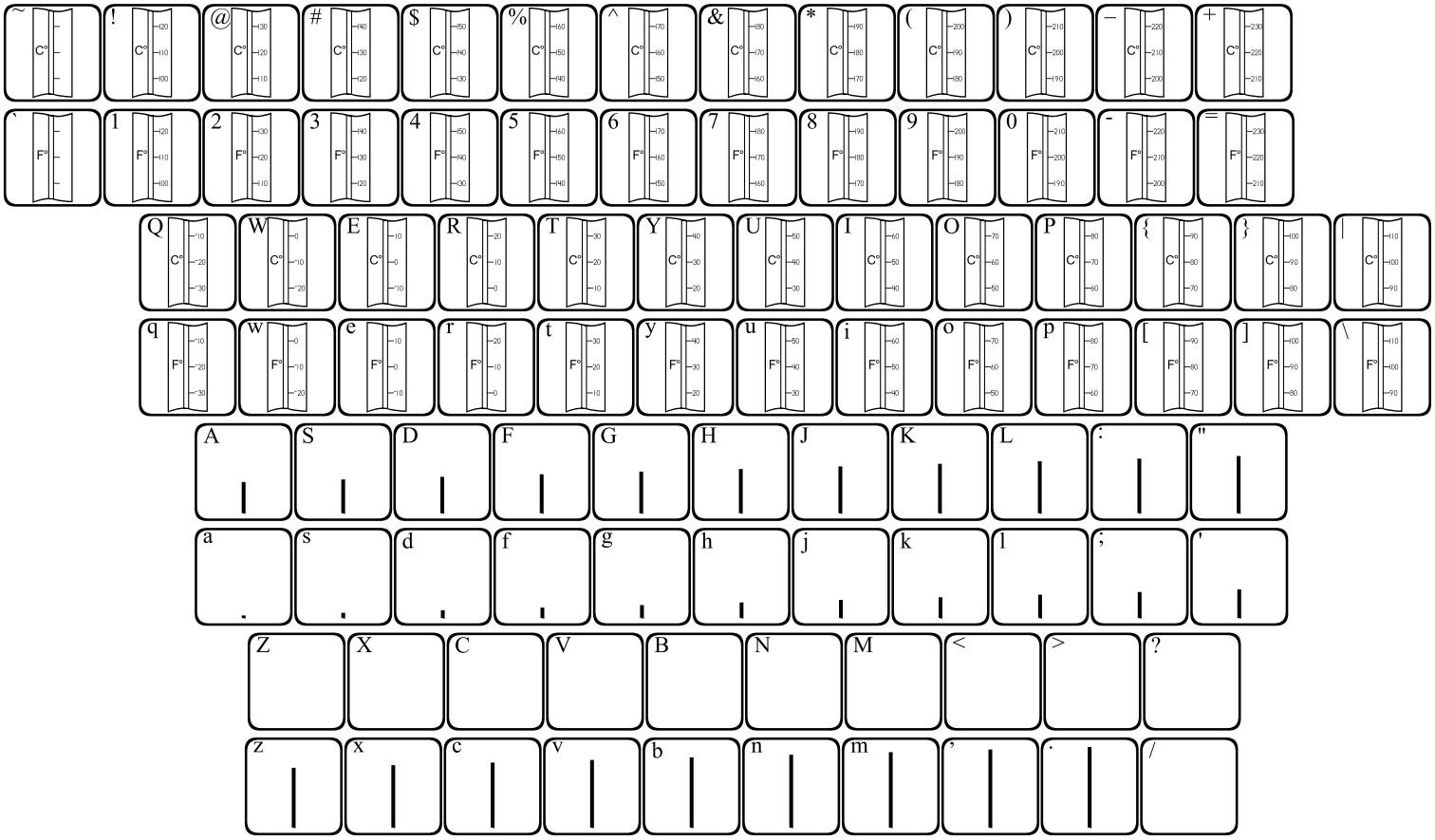
To place a thermometer, first press the key for the thermometer of your choice, then press one of the "fill" keys. Press the space bar 2 or more times to advance the cursor. Because the cursor does not move until you press "space", you can press several of the "fill" keys until you find the one that you want. Also, it is possible to change the color of the "fill" by changing the font color after you have placed the thermometer and before you press a "fill" key.

For example, to create a thermometer showing 145° F, press "5", change the font color to gray, and then press the "apostrophe" key.



123Thermometer4

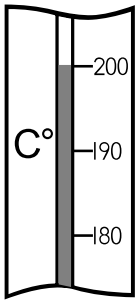
123Thermometer1-4 operate identically. The only difference between the four fonts is the increments by which the thermometers are subdivided.



123Thermometer4 contains thermometers that count by increments of 10 with no subdividing lines. The lowercase keys of the top 2 rows will place Fahrenheit thermometers, while the uppercase keys will place Celsius thermometers. The bottom 2 rows are used to "fill" the thermometers. The "a" through "hyphen" keys fill the lower part of the thermometer, "A" through "quotes mark" fill the middle section, and "z" through "period" can fill the upper portion.

To place a thermometer, first press the key for the thermometer of your choice, then press one of the "fill" keys. Press the space bar 2 or more times to advance the cursor. Because the cursor does not move until you press "space", you can press several of the "fill" keys until you find the one that you want. Also, it is possible to change the color of the "fill" by changing the font color after you have placed the thermometer and before you press a "fill" key.

For example, to create a thermometer showing 200° C, press "(", change the font color to gray, and then press "v".



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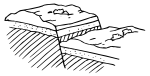
 q	 w	 e	 r	 t	 y	 u	 i	 o	 p	 [	]	\

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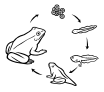
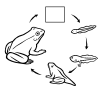
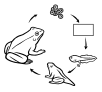
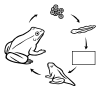
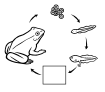
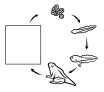
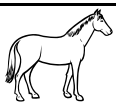
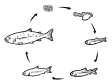
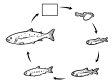
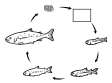
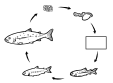
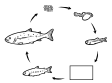
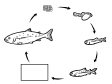
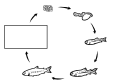
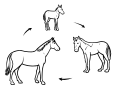
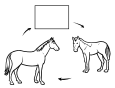
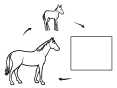
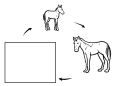
 q	 w	 e	 r	t	y	 u	 i	 o	 p	 [	]	\
	A	S	D	F	 G	 H	 J	K	 L	 :	 "	
	 a	 s	 d	 f	 g	 h	 j	 k	 l	 ;	 '	
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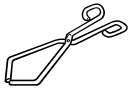
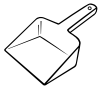
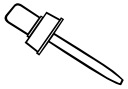
`	1 	2 	3 	4 	5 	6 	7 	8 	9 	0 	-	=
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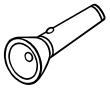
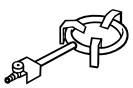
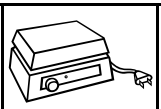
q 	w 	e 	r 	t 	y 	u 	i 	o 	p 	[	]	\
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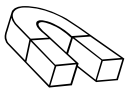
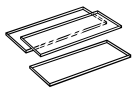
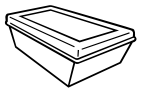
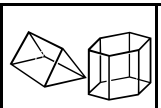
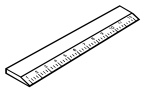
	a 	s 	d 	f 	g 	h 	j 	k 	l 	; 	'	
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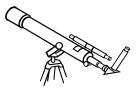
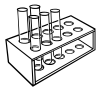
		z 	x 	c 	v 	b 	n 	m 	, 	. 	/ 	

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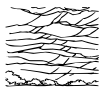
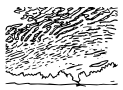
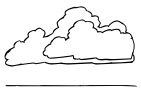
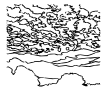
		 z	 x	 c	 v	 b	 n	 m	 ,	 .	/	