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# 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, assessments, presentations and more!

## 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 district computers and district employee’s home computers. The software may also be placed on a district network.

## Publishing

Print items created with **1, 2, 3 Science Fonts** may be freely distributed. Print items created for sale should have the acknowledgement “A portion 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. The fonts may not be distributed in any way, nor can they be embedded on websites. Please contact [info@justusteachers.com](mailto:info@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 Option 1 - Automatic Installation

Insert CD into drive and wait for the **Welcome** screen to appear. If it does not appear automatically, double-click the CD drive to open it, then double-click "autorun". Follow the prompts to complete installation.

## Windows Option 2 - Manual Installation

Follow the instructions for your Operating System.

### Windows 95 and older

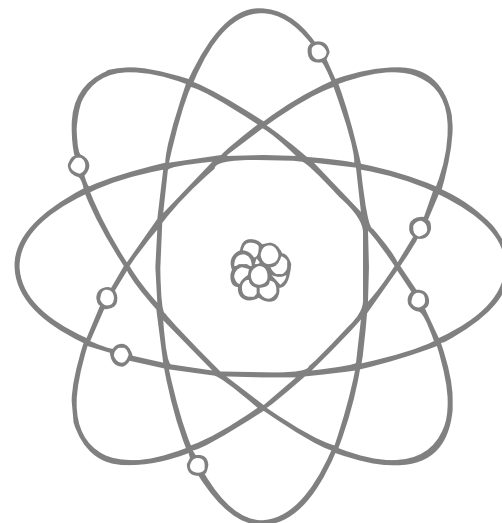
1. Insert the CD-ROM into your disk drive.
2. Click "**Start**", choose "**Settings**", then choose "**Control Panel**".
3. Double-click the "**Fonts**" icon to open it.
4. From the File menu, click "**Install New Font**".
5. In the "**Drives**" menu, select the drive that contains the **123ScienceFonts**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

### Windows Vista

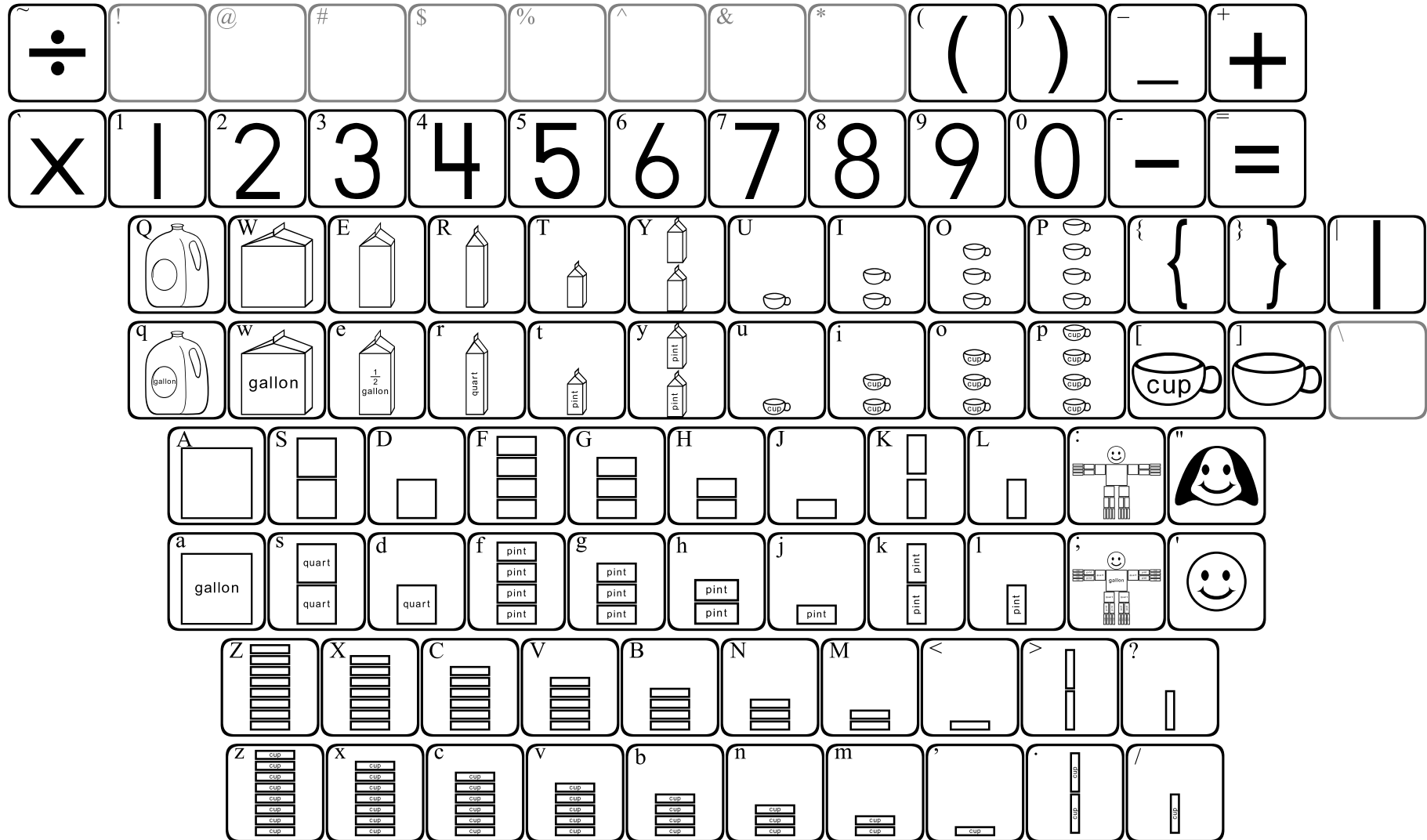
1. Click "**Start**", then choose "**Control Panel**".
2. Click "**Appearance and Personalization**".
3. Click "**Fonts**".
4. From the File menu, click "**Install New Font**". If you don't see the File menu, press **ALT**.
5. In the "**Add Fonts**" dialog box, under "**Drives**", click the drive that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



### Macintosh OSX and later

1. Insert the CD-ROM into your disk drive.
2. Double-click the "**123ScienceFonts**" Icon.
3. Double-click the "**Fonts**" 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.)

# 123Capacity1







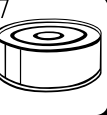









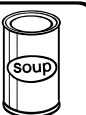













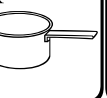






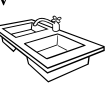
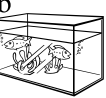


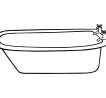
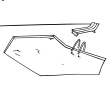



123Capacity1 contains customary capacity units of measurement.

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.

# 123Capacity2

~	!	@	#	\$	%	^	&	*	(	)	-	+
	1 	2 	3 	4 	5 	6 	7 	8 	9 	0 	-	=
Q	W	E	R	T	Y	U	I	O	P	{	}	
q 	w 	e 	r 	t 	y 	u 	i 	o 	p 	l 	j 	\ 
A	S	D	F	G	H	J	K	L	:	"		
a 	s 	d 	f 	g 	h 	j 	k 	l 	;		' 	
Z	X	C	V	B	N	M	<	>	?			
z 	x 	c 	v 	b 	n 	m 	' 	^ 	/ 			

# 123Constellations1

**NOTE:** The keyboard diagram for this font is organized differently than other font diagrams to better show how the constellations are arranged on the keyboard.

## Uppercase Keys

Constellation maps	~	!	@	#	\$	%	^	&	*	(	)	-	+
Maps with lines		Q	W	E	R	T	Y	U	I	O	P	{	}
Constellations w/ figures		A	S	D	F	G	H	J	K	L	:	"	"
Figures only		Z	X	C	V	B	N	M	<	>	?		
		Cepheus	Cetus	Draco	Hercules	Hydra	Lyra	Northern Cross	Orion	Pegasus	Perseus		

Each constellation is shown in 4 configurations, and is arranged in 1 column.

The top row of keys (numbers) contains the star map, the 2<sup>nd</sup> row (qwerty) contains the map with lines, the 3<sup>rd</sup> row (asdf) contains the map, lines and figure, and the last row contains only the figure.

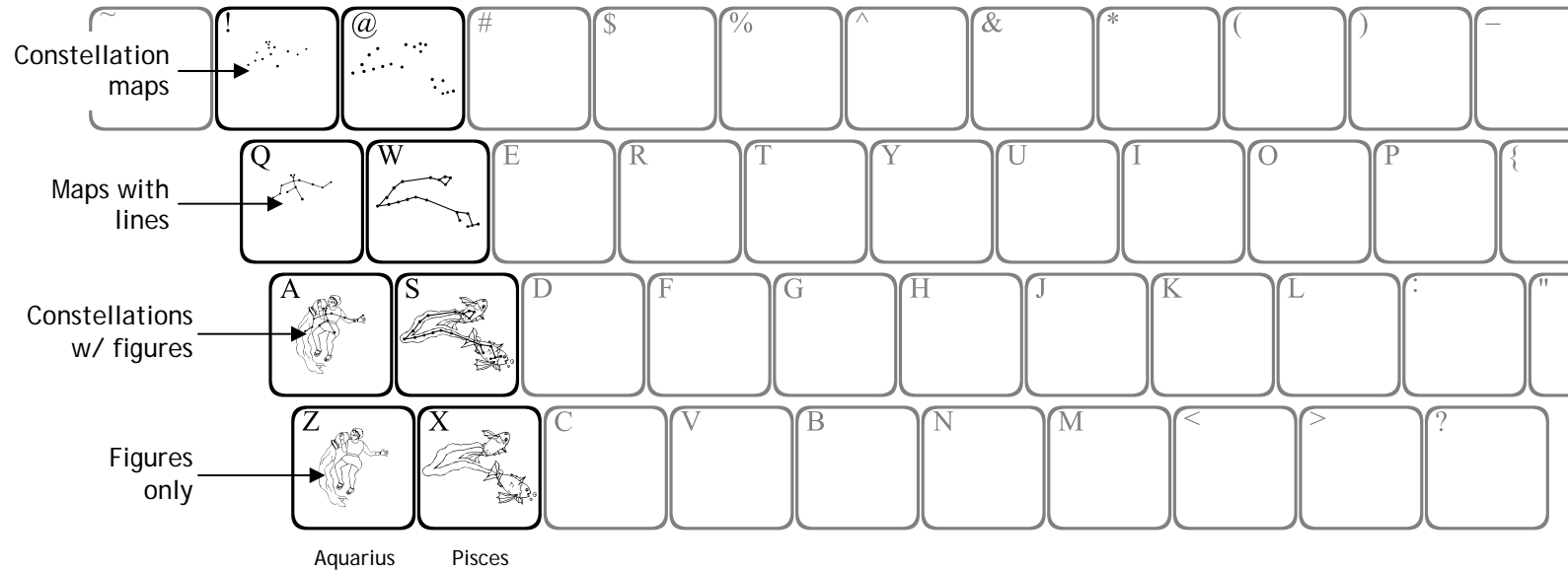
## Lowercase Keys

Constellation maps	1	2	3	4	5	6	7	8	9	0	-	=		
Maps with lines	q	w	e	r	t	y	u	i	o	p	[	]	\	
Constellations w/ figures	a	s	d	f	g	h	j	k	l	;	'			
Figures only	z	x	c	v	b	n	m	^	.	/				
	Andromeda	Aquila	Auriga	Big Dipper	Little Dipper	Ursa Major	Ursa Minor	Canis Major	Canis Minor	Centaurus				

# 123Constellations2

**NOTE:** The keyboard diagram for this font is organized differently than other font diagrams to better show how the constellations are arranged on the keyboard.

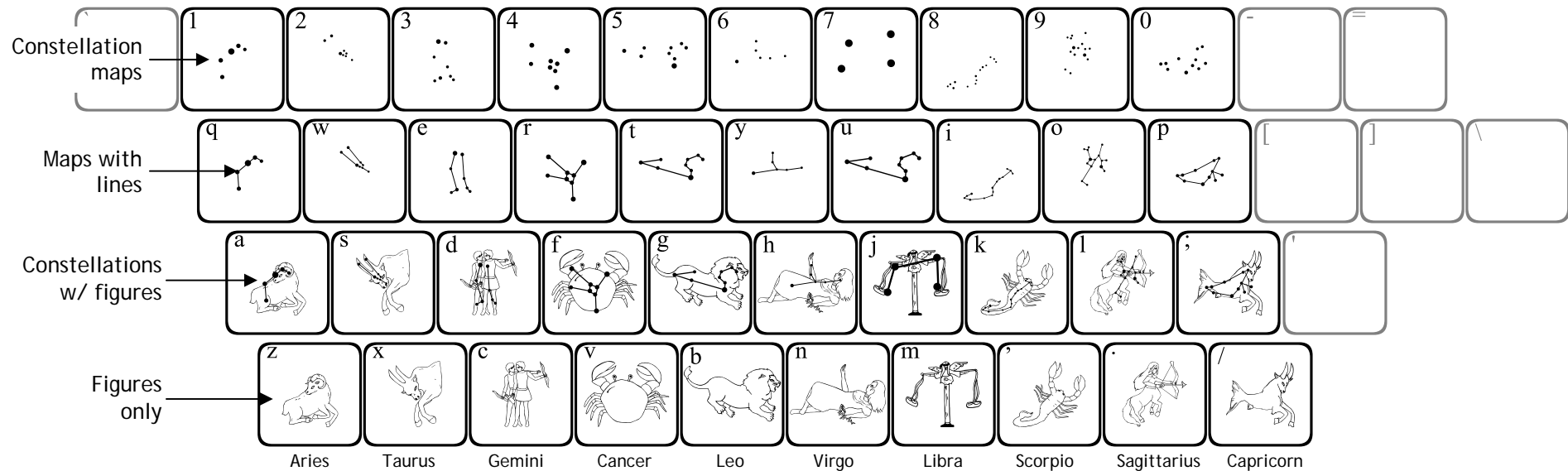
## Uppercase Keys



Each constellation is shown in 4 configurations, and is arranged in 1 column.

The top row of keys (numbers) contains the star map, the 2<sup>nd</sup> row (qwerty) contains the map with lines, the 3<sup>rd</sup> row (asdf) contains the map, lines and figure, and the last row contains only the figure.

## Lowercase Keys



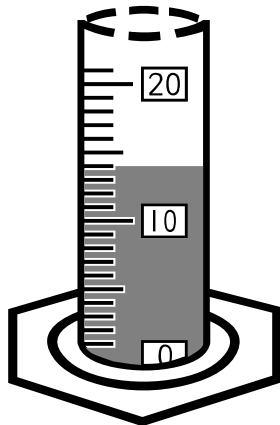


# 123Cylinders1 - 123Cylinders4

123Cylinders1 through 123Cylinders4 are specialty fonts, meaning that a combination of keystrokes is necessary to form a complete image. You must first place a cylinder "face", then you will press another key to create a "fill" level.

Letters "q" through "p" (the "qwerty" row) each show a portion of a cylinder, while the "[" (bracket) key shows a complete cylinder. The cylinder 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, then press "F" to fill the cylinder with gray "liquid".



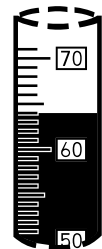
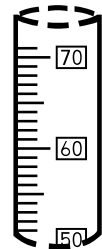
123Cylinders1 and 123Cylinders2 use a "flat" fill, while 123Cylinders3 and 123Cylinders4 contain a meniscus.

## Example

Goal: Create a cylinder showing 64 units.

**Step 1:** Choose a cylinder portion that contains 64 within its range, in this case, y or u. This example uses y. When typed, you may notice that the cursor does not move.

**Step 2:** Choose the fill level. You want to choose a fill that includes the bottom rectangle (where the 50 is in this case), the middle rectangle (60) and 4 lines. The correct key for this example is F. When typed, the cursor still does not move. You will need to press the space bar several times to move past the cylinder.



**NOTE:** It is possible to achieve the desired fill level *without* referring to this guide.

Fill levels increase as you move across the keyboard from left to right. The asdf row fills the bottom half of the cylinder, while the ASDF row fills the top half.

Since the cursor does not move when typing, fill levels will overlap if you type more than one. Thus, you can just type across the keyboard from left to right until you achieve the desired fill level.

# 123Cylinders1

The cylinders in 123Cylinders1 are numbered in increments of "10".

÷	!	@	#	\$	%	^	&	*	(	)	-	+	
X	<sup>1</sup> I	<sup>2</sup> 2	<sup>3</sup> 3	<sup>4</sup> 4	<sup>5</sup> 5	<sup>6</sup> 6	<sup>7</sup> 7	<sup>8</sup> 8	<sup>9</sup> 9	<sup>0</sup> 0	-	=	
	Q	W	E	R	T	Y	U	I	O	P	{	}	
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	;	'			
Z	X	C	V	B	N	M	<	>	?				
z	x	c	v	b	n	m	,	.	/				

This row fills the top half of cylinder portions.

This row fills the bottom half of cylinder portions.

The gray portions are shown only for reference and do not appear when typing.

First type in a cylinder piece.

Then type in a "fill" level.

# 123Cylinders2

The cylinders in 123Cylinders2 are numbered in increments of "100".

÷	!	@	#	\$	%	^	&	*	(	)	-	+
X	<sup>1</sup> 1	<sup>2</sup> 2	<sup>3</sup> 3	<sup>4</sup> 4	<sup>5</sup> 5	<sup>6</sup> 6	<sup>7</sup> 7	<sup>8</sup> 8	<sup>9</sup> 9	<sup>0</sup> 0	-	=
Q	W	E	R	T	Y	U	I	O	P	{	}	
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	;	'		
Z	X	C	V	B	N	M	<	>	?			
z	x	c	v	b	n	m	'	'	/			

This row fills the top half of cylinder portions.

This row fills the bottom half of cylinder portions.

The gray portions are shown only for reference and do not appear when typing.

First type in a cylinder piece.

Then type in a "fill" level.

# 123Cylinders3

The cylinders in 123Cylinders3 are numbered in increments of "10".

÷	!	@	#	\$	%	^	&	*	(	)	-	+	
X	<sup>1</sup> 1	<sup>2</sup> 2	<sup>3</sup> 3	<sup>4</sup> 4	<sup>5</sup> 5	<sup>6</sup> 6	<sup>7</sup> 7	<sup>8</sup> 8	<sup>9</sup> 9	<sup>0</sup> 0	-	=	
	Q	W	E	R	T	Y	U	I	O	P	{	}	
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	;	'			
Z	X	C	V	B	N	M	<	>	?				
z	x	c	v	b	n	m	,	.	/				

This row fills the top half of cylinder portions.

This row fills the bottom half of cylinder portions.

The gray portions are shown only for reference and do not appear when typing.

First type in a cylinder piece.

Then type in a "fill" level.

# 123Cylinders4

The cylinders in 123Cylinders4 are numbered in increments of "100".

÷	!	@	#	\$	%	^	&	*	(	)	-	+
X	<sup>1</sup> 1	<sup>2</sup> 2	<sup>3</sup> 3	<sup>4</sup> 4	<sup>5</sup> 5	<sup>6</sup> 6	<sup>7</sup> 7	<sup>8</sup> 8	<sup>9</sup> 9	<sup>0</sup> 0	-	=
Q	W	E	R	T	Y	U	I	O	P	{	}	
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	;	'		
Z	X	C	V	B	N	M	<	>	?			
z	x	c	v	b	n	m	'	.	/			

This row fills the top half of cylinder portions.



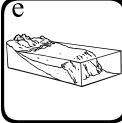


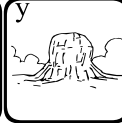
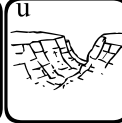
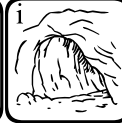
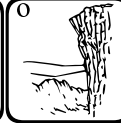
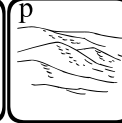
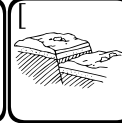
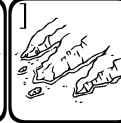
This row fills the bottom half of cylinder portions.



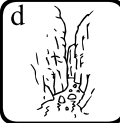


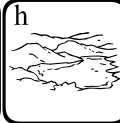
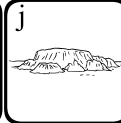
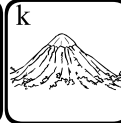
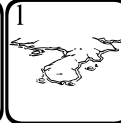
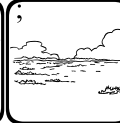
The gray portions are shown only for reference and do not appear when typing.

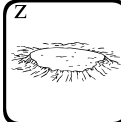
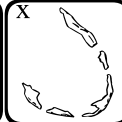
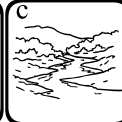
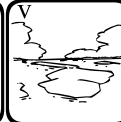
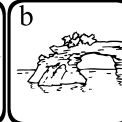
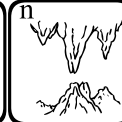
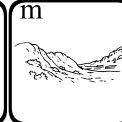
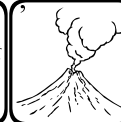


First type in a cylinder piece.

Then type in a "fill" level.

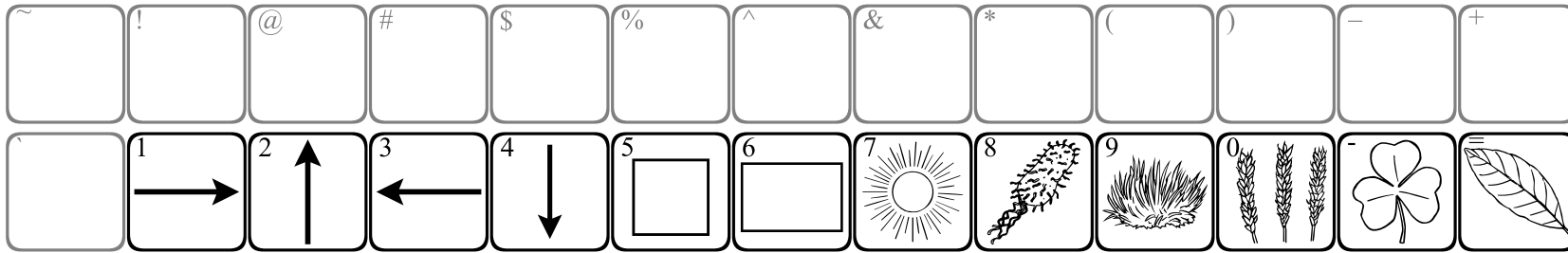
# 123EarthScience1

~	!	@	#	\$	%	^	&	*	(	)	-	+
^	1	2	3	4	5	6	7	8	9	0	-	=
Q	W	E	R	T	Y	U	I	O	P	{	}	
q	w	e	r	t	y	u	i	o	p	l	l	\
												
earth layers	volcano	shoreline	landforms	beach	butte	canyon	cave	cliff	dune	fault	fjord	

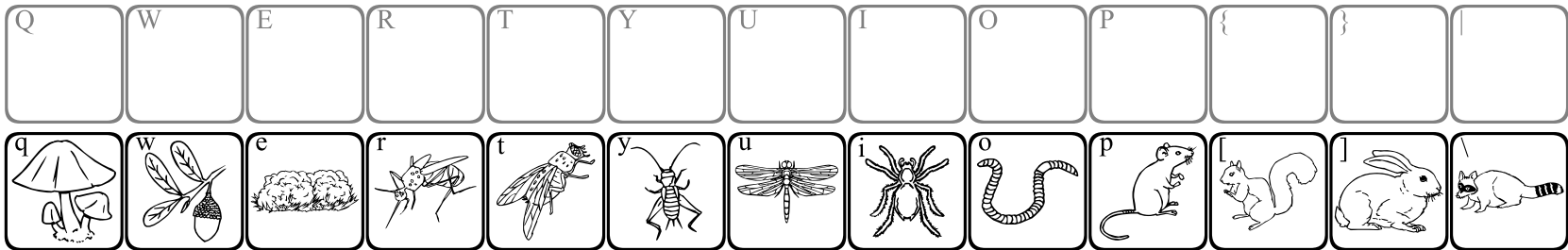
A	S	D	F	G	H	J	K	L	:	"
a	s	d	f	g	h	j	k	l	:	'
										
geyser	glacier	gorge	iceberg	island	lake	mesa	mountain	peninsula	plains	

Z	X	C	V	B	N	M	<	>	?
z	x	c	v	b	n	m	'	'	/
									
plateau	reef	river	sandbar	sea arch	stalactite/ stalagmite	valley	volcano	waterfall	waves

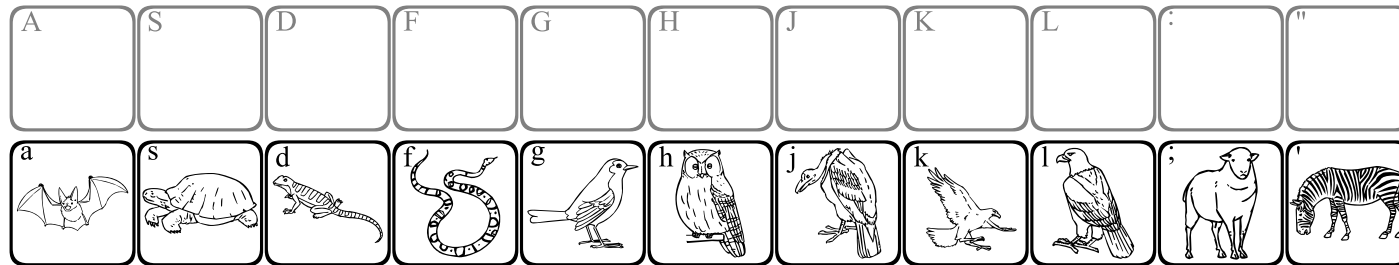
# 123FoodChains1



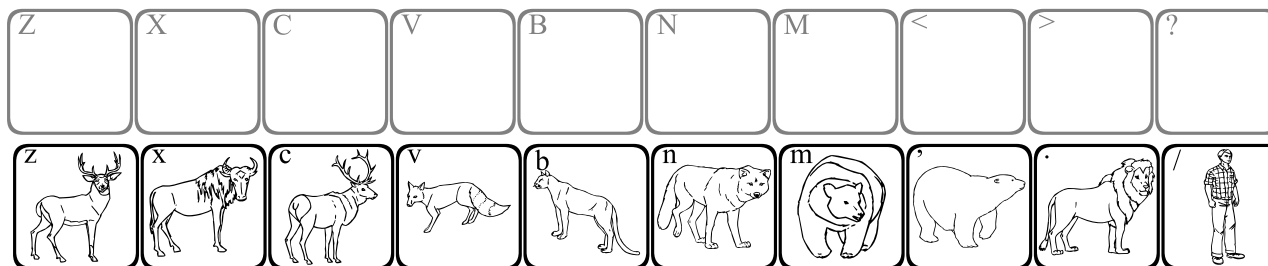
sun bacteria grass grain clover leaf



mushroom acorn bush mosquito fly cricket dragonfly spider worm mouse squirrel rabbit raccoon

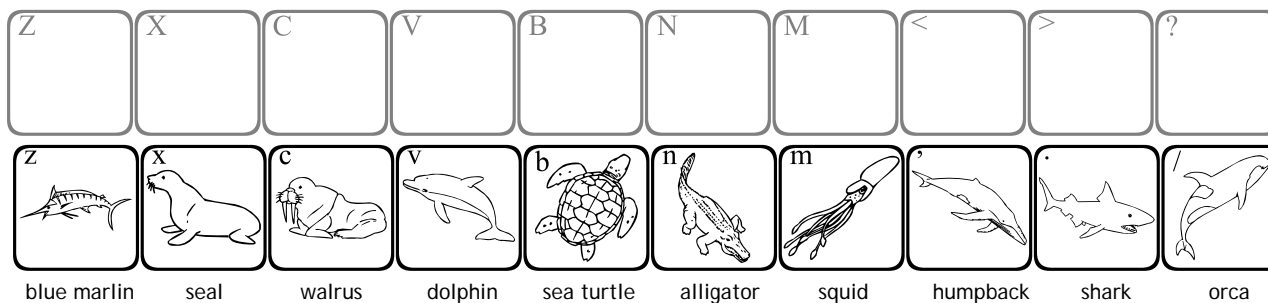
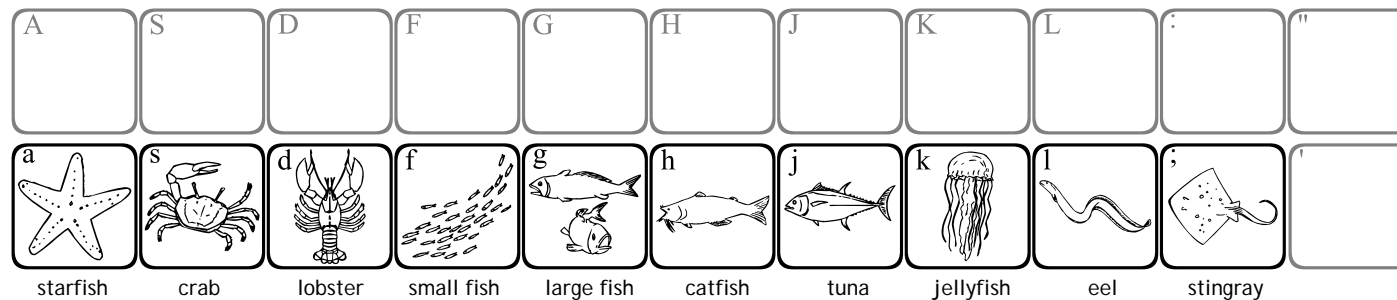
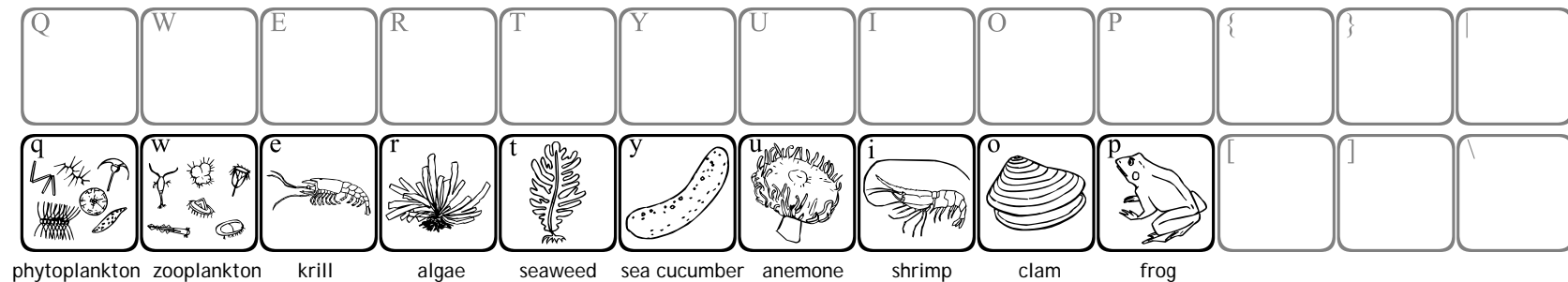
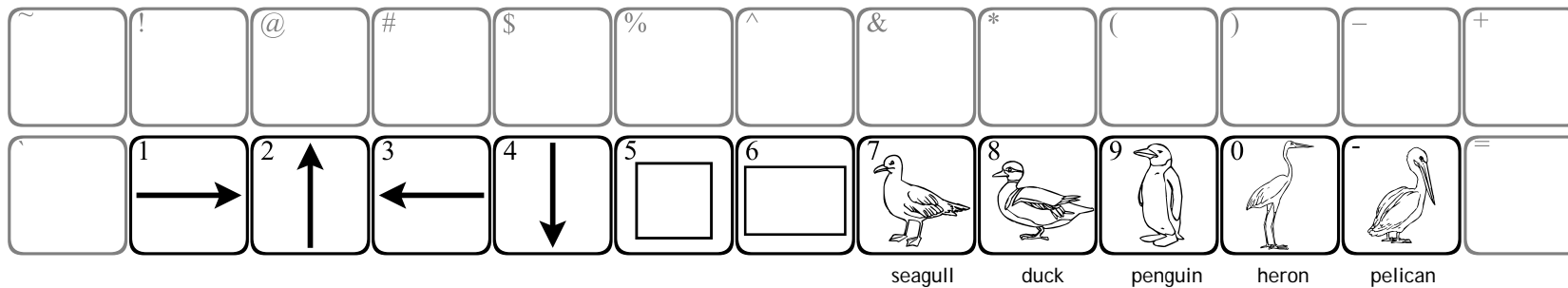


bat turtle lizard snake robin owl vulture hawk eagle sheep zebra



deer wildebeest moose fox cougar wolf bear polar bear lion man


























# 123FoodChains2





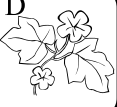









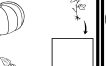








# 123LifeCycles1





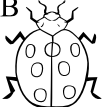

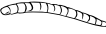






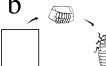





~	!	@	#	\$	%	^	&	*	(	)	-	+
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Q 	W 	E 	R 	T 	Y 	U 	I 	O	P 	{ 	} 	 
q 	w 	e 	r 	t 	y 	u 	i 	o 	p 	[ 	] 	\ 

bean plant      flowering bush

A 	S 	D 	F 	G 	H	J 	K 	L 	:	" 
a 	s 	d 	f 	g 	h 	j 	k 	l 	;	' 













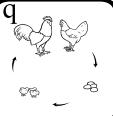
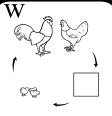
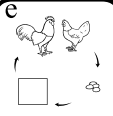
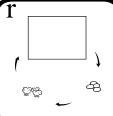


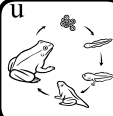
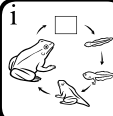

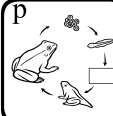
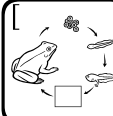
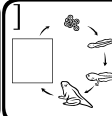
pumpkin      butterfly

Z 	X 	C 	V 	B 	N 	M 	< 	> 	?
z 	x 	c 	v 	b 	n 	m 	' 	," 	/ 

ladybug      mealworm









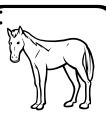

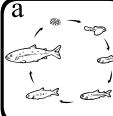
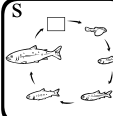
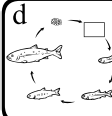
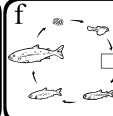
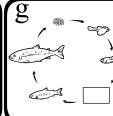
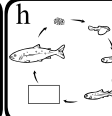
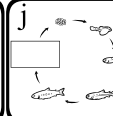
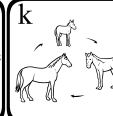
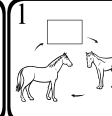
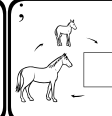
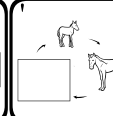
# 123LifeCycles2

~	!	@	#	\$	%	^	&	*	(	)	-	+
`	1	2	3	4	5	6	7	8	9	0	_	=

Q	W	E	R	T	Y	U	I	O	P	{	}	
												
q	w	e	r	t	y	u	i	o	p	{	}	
												











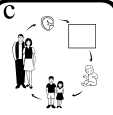

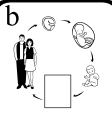
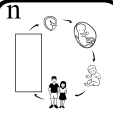
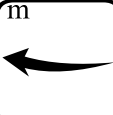

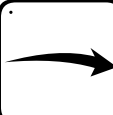

chicken

frog

A	S	D	F	G	H	J	K	L	"	
										
a	s	d	f	g	h	j	k	l	"	
										

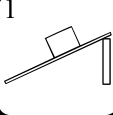

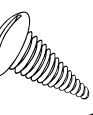
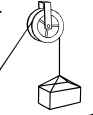
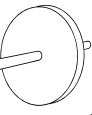
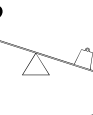
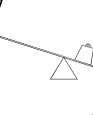
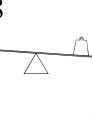
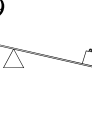
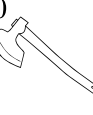

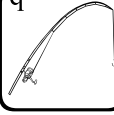
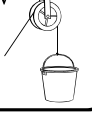
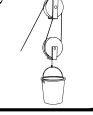
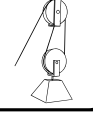

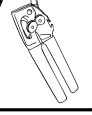
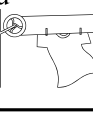

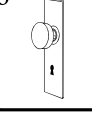

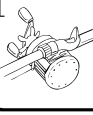
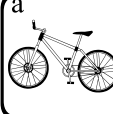


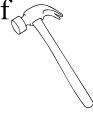

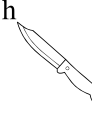




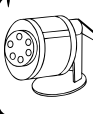

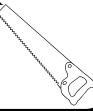


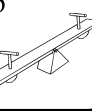

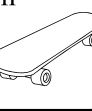

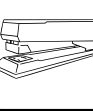


salmon

horse

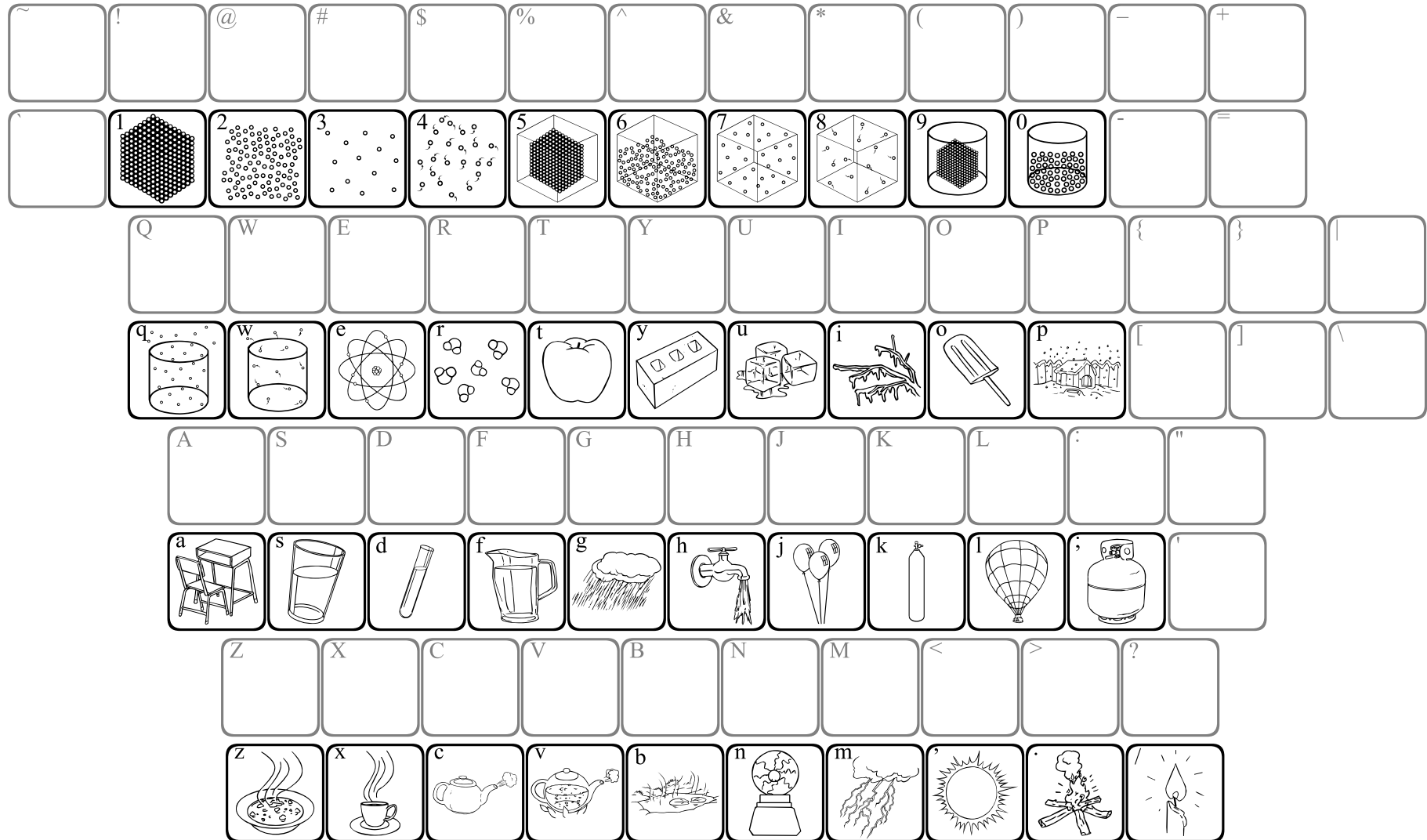
Z	X	C	V	B	N	M	<	>	?
									
z	x	c	v	b	n	m	'	'	'
									

human

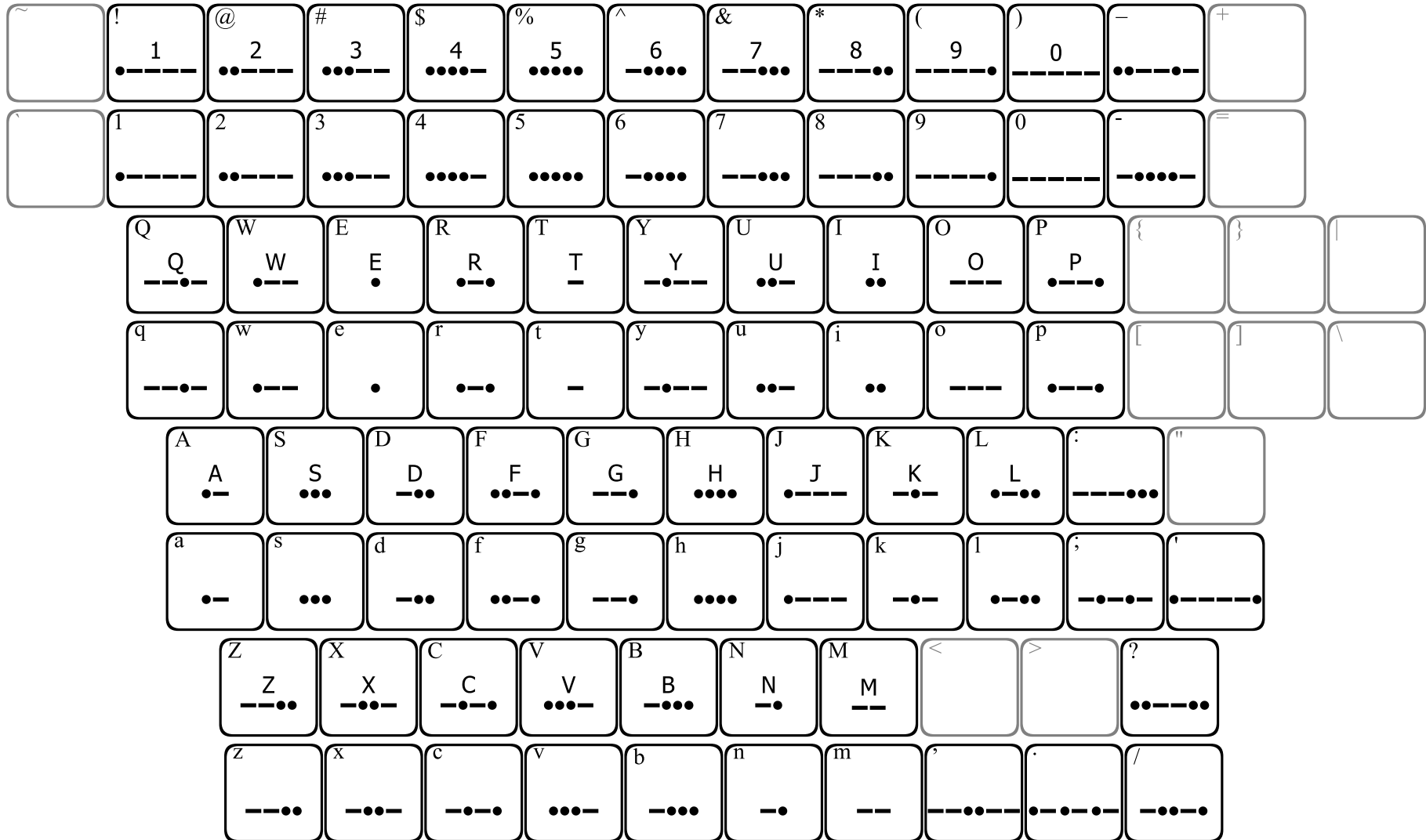
# 123Machines1

~	!	@	#	\$	%	^	&	*	(	)	-	+
	1	2	3	4	5	6	7	8	9	0		
												
Q	W	E	R	T	Y	U	I	O	P	{	}	
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	:	"		
												
Z	X	C	V	B	N	M	<	>	?			
z	x	c	v	b	n	m	<	>	?			
												

# 123Matter1



# 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".

# 123Periodic1

~	! H	@ He	# Li	\$ Be	% B	^ C	& N	* O	( F	) Ne	- Na	+ Mg
`	1 <sup>1</sup> H 1.008 Hydrogen	2 <sup>2</sup> He 4.0026 Helium	3 <sup>3</sup> Li 6.941 Lithium	4 <sup>4</sup> Be 9.012 Beryllium	5 <sup>5</sup> B 10.81 Boron	6 <sup>6</sup> C 12.011 Carbon	7 <sup>7</sup> N 14.007 Nitrogen	8 <sup>8</sup> O 15.999 Oxygen	9 <sup>9</sup> F 18.998 Flourine	10 <sup>10</sup> Ne 20.179 Neon	11 <sup>11</sup> Na 22.990 Sodium	12 <sup>12</sup> Mg 24.305 Magnesium
Q	W	E	R	T	Y	U	I	O	P	{	}	
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	:	'		
Z	X	C	V	B	N	M	<	>	?			
z	x	c	v	b	n	m	'	.	/			

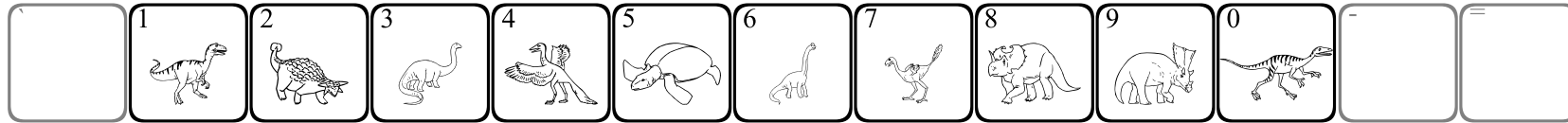
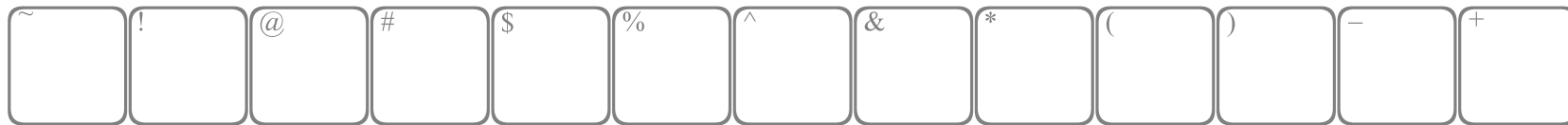
123Periodic1 contains the first 46 elements. The lowercase keys show the atomic number, symbol, atomic mass, and the name of each element, while the uppercase keys show only the symbol.

# 123Periodic2

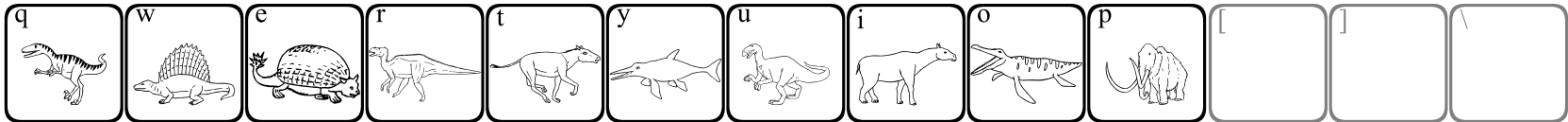
~	! Ag	@ Cd	# In	\$ Sn	% Sb	^ Te	& I	* Xe	( Cs	) Ba	- La	+ Ce
^	1 Ag 47 107.868 Silver	2 Cd 48 112.41 Cadmium	3 In 49 114.82 Indium	4 Sn 50 118.71 Tin	5 Sb 51 121.763 Antimony	6 Te 52 127.60 Tellurium	7 I 53 126.904 Iodine	8 Xe 54 131.29 Xenon	9 Cs 55 132.905 Cesium	0 Ba 56 137.33 Barium	- La 57 138.906 Lanthanum	+ Ce 58 140.12 Cerium
Q	W	E	R	T	Y	U	I	O	P	{	}	
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	:	"		
Z	X	C	V	B	N	M	<	>	?			
z	x	c	v	b	n	m	'	'	'	'	'	'

123Periodic2 contains the elements numbered 47 through 92. The lowercase keys show the atomic number, symbol, atomic mass, and the name of each element, while the uppercase keys show only the symbol.

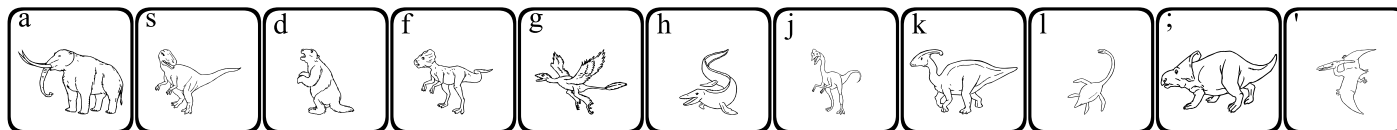
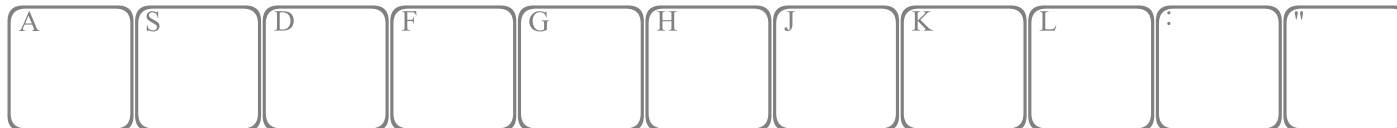
# 123Prehistoric1



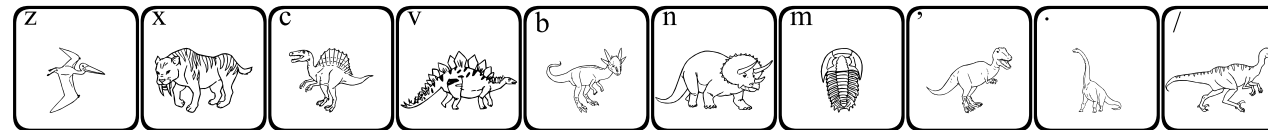
Allosaurus		Ankylosaurus		Apatosaurus		Archaeopteryx		Archelon		Brachiosaurus		Caudipteryx zoui		Centrosaurus		Chasmosaurus		Compsognathus
------------	--	--------------	--	-------------	--	---------------	--	----------	--	---------------	--	------------------	--	--------------	--	--------------	--	---------------



Deinonychus		Dimetrodon		Doedicurus		Hadrosaurus		Hyracotherium		Ichthyosaurus		Iguanodon		Indricotherium		Kronosaurus		Mammoth
-------------	--	------------	--	------------	--	-------------	--	---------------	--	---------------	--	-----------	--	----------------	--	-------------	--	---------



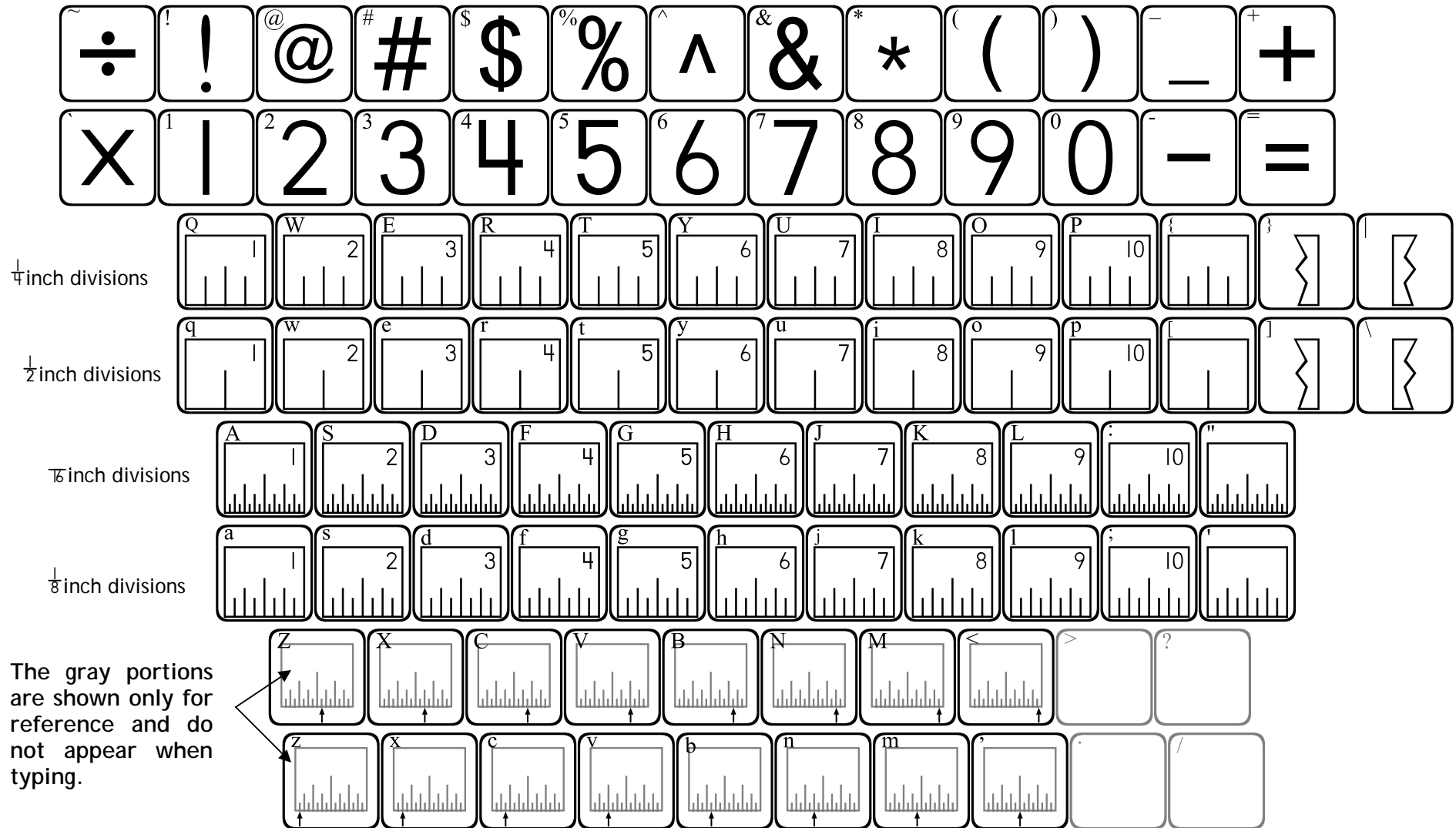
Mastodon		Megalosaurus		Megatherium		Microceratops		Micropteryx		Mosasauro		Oviraptor		Parasaurolophus		Plesiosaurus		Protoceratops		Pteranodon
----------	--	--------------	--	-------------	--	---------------	--	-------------	--	-----------	--	-----------	--	-----------------	--	--------------	--	---------------	--	------------



Pterodactyl		Smilodon		Spinosaurus		Stegosaurus		Stygimoloch		Triceratops		Trilobite		Tyrannosaurus rex		Ultrasaurus		Velociraptor
-------------	--	----------	--	-------------	--	-------------	--	-------------	--	-------------	--	-----------	--	-------------------	--	-------------	--	--------------

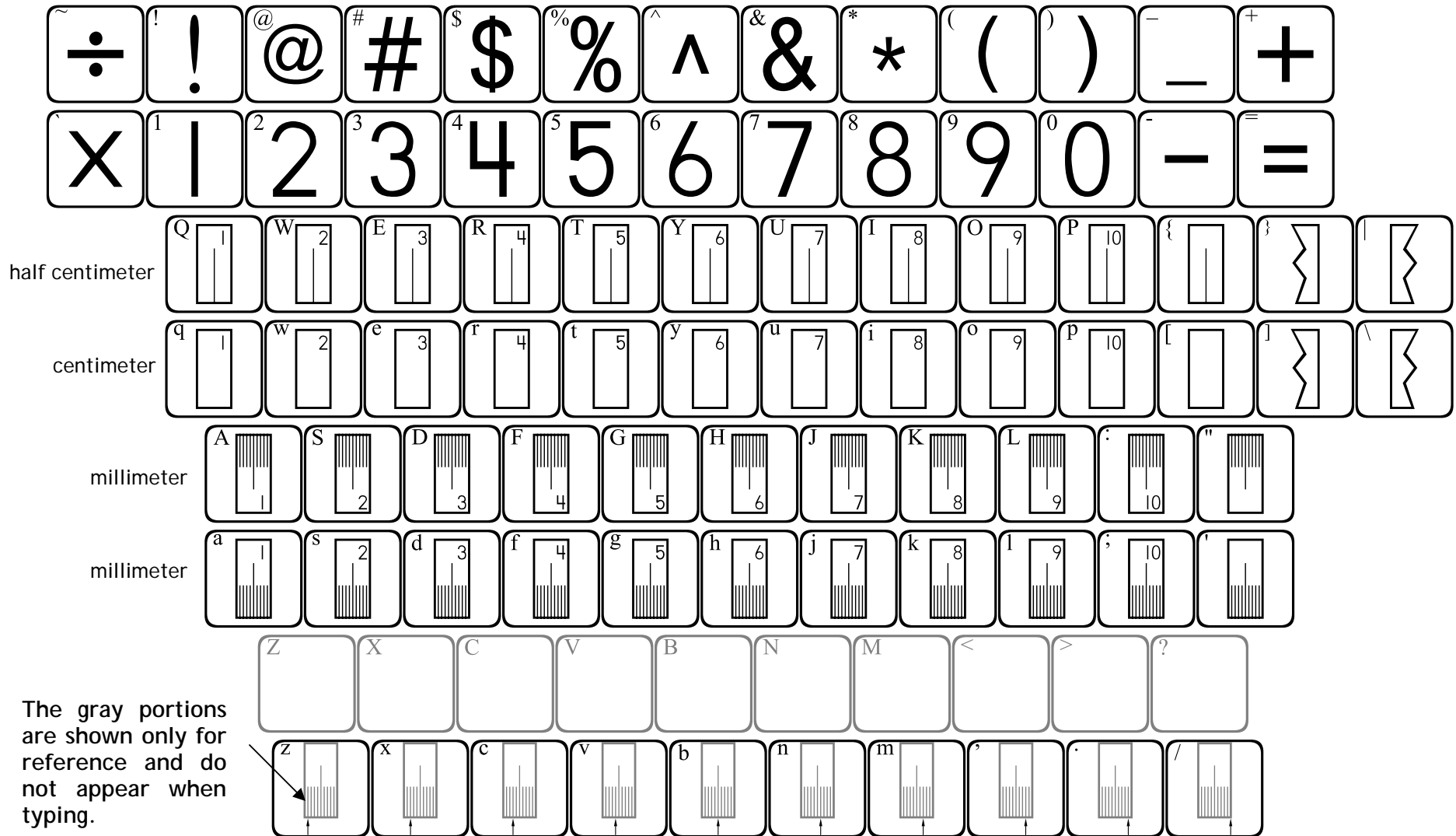


# 123Rulers1



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

# 123Rulers2



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.

# 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. As you type in numbers, 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.

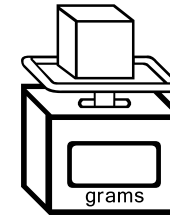
Each row contains the same objects, but with different units of measure.

Row	Unit of measurement
qwerty	none
QWERTY	milligrams
asdf	grams
ASDF	kilograms
zxcv	ounces
ZXCV	pounds

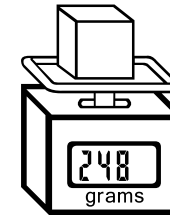
## Example

**Goal:** Create a scale showing a cube with a mass of 248.5 grams.

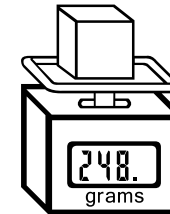
**Step 1:** Locate and press the key that represents a gram scale with a cube resting on it (the s key).



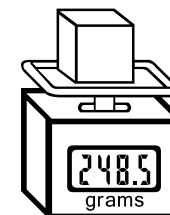
**Step 2:** Type the numbers 2 4 8



**Step 3:** To place a decimal, type either [ or '



**Step 4:** Type the number 5



# 123Scales1

	~	!	@	#	\$	%	^	&	*	(	)	-	+
		1	2	3	4	5	6	7	8	9	0	-	=
milligrams	Q	W	E	R	T	Y	U	I	O	P	{	}	
blank	q	w	e	r	t	y	u	i	o	p	[	]	\
kilograms	A	S	D	F	G	H	J	K	L	:			
grams	a	s	d	f	g	h	j	k	l	:			
pounds	Z	X	C	V	B	N	M	<	>	?			
ounces	z	x	c	v	b	n	m	'	'	'			

Digital numbers can be made to appear as part of any of the scales. First type in a scale, then type in the numbers. The numbers will appear inside the scale. Press the space bar when you do not want a number.

# 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.

Row	Unit of measurement
qwerty	none
QWERTY	milligrams
asdf	grams
ASDF	kilograms
zxcv	ounces
ZXCV	pounds

Each number key contains a different “face” that can be placed on any of the scales.

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

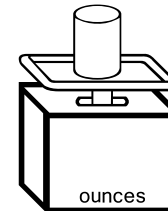
1. Place a scale by typing the key for the scale you have chosen.
2. Place a dial face on the scale by typing one of the number keys.
3. Place a hand on the dial by pressing “shift” while typing one of the number keys.

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

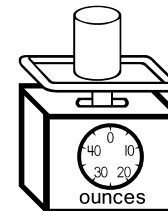
## Example

**Goal:** Create a scale showing a cylinder with a weight of 10 ounces.

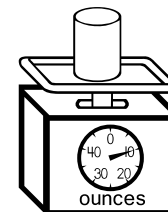
**Step 1:** Locate and press the key that represents an ounces scale with a cylinder resting on it (the b key)



**Step 2:** Select a face that includes the number 10. We have chosen the face on key 5

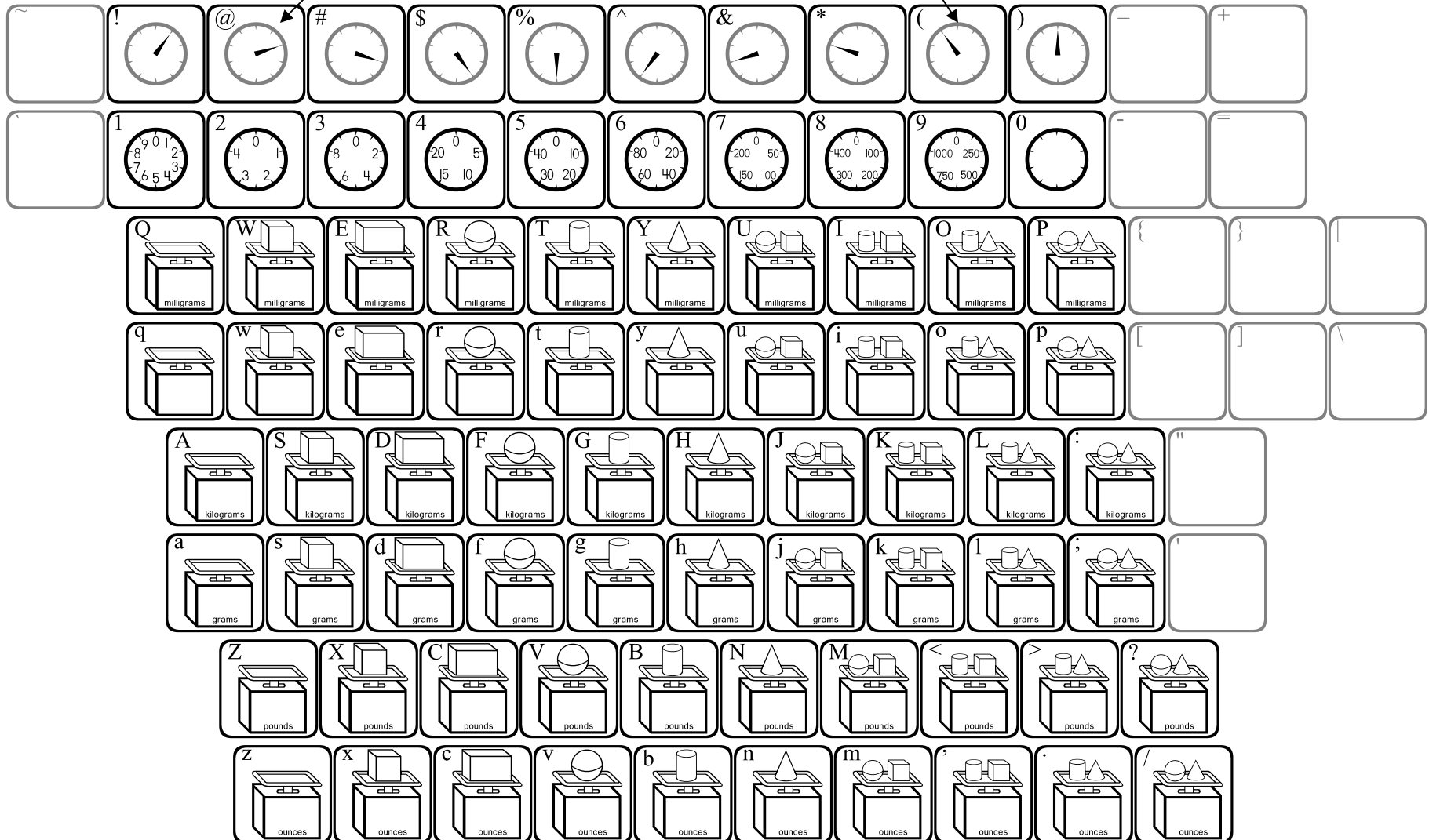


**Step 3:** Type the key that contains the hand that will point to the 10 (the @ key)



# 123Scales2

The gray portions are shown only for reference and do not appear when typing.



## Steps

Place ANY dial face and hand onto ANY of the scales.  
They will overlap to create a complete scale.

- 1) Type in a scale.
- 2) Type in a dial.
- 3) Type in a hand.

# 123Scales3

123Scales3 is a highly specialized font that requires multiple keystrokes to show measurement on a triple beam balance.

Each of the lowercase letters on the bottom row (except the letter z) provides an image of a complete scale with some type of object on it. 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 (sliders) for the top beam, the second row of keys contains tares for the second beam, and the third row of keys contains tares for the bottom beam.

Different measurements can be represented:

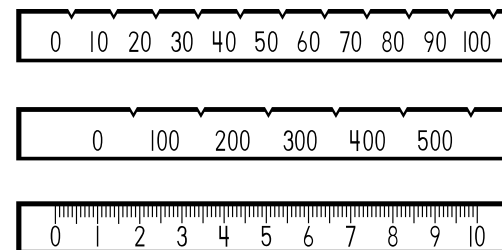
- 1) Press the z key to place an image of a triple beam.
- 2) Press one key from each of the top three rows to place the sliders.
- 3) Press a key from the top row (1 through "hyphen") to place a tare on the top beam. The "1" key equals 10 grams, "2" = 20 grams, etc. The hyphen key places the tare in the zero position.
- 4) 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.
- 5) 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.

Because the cursor does not advance until you press the space bar, the top two sliders can be placed in any order.

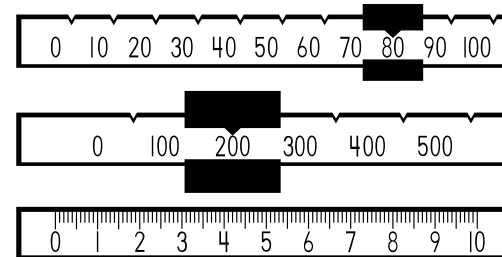
## Example

**Goal:** Create a triple beam showing a mass of 284.7 grams.

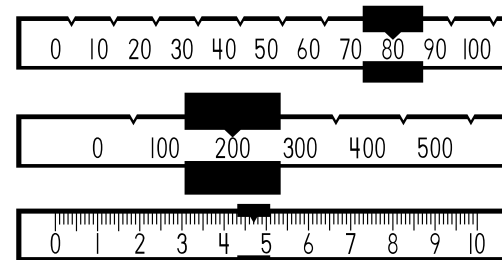
**Step 1:** Press z to show a triple beam.



**Steps 2 & 3:** Press 8 to place a slider on the top beam, then press w to place the slider on the middle beam.



**Step 4:** Press the space bar 4 times. Each time you press the space bar, the cursor moves forward the equivalent of one whole unit across the bottom beam. Then press j to place the final slider.



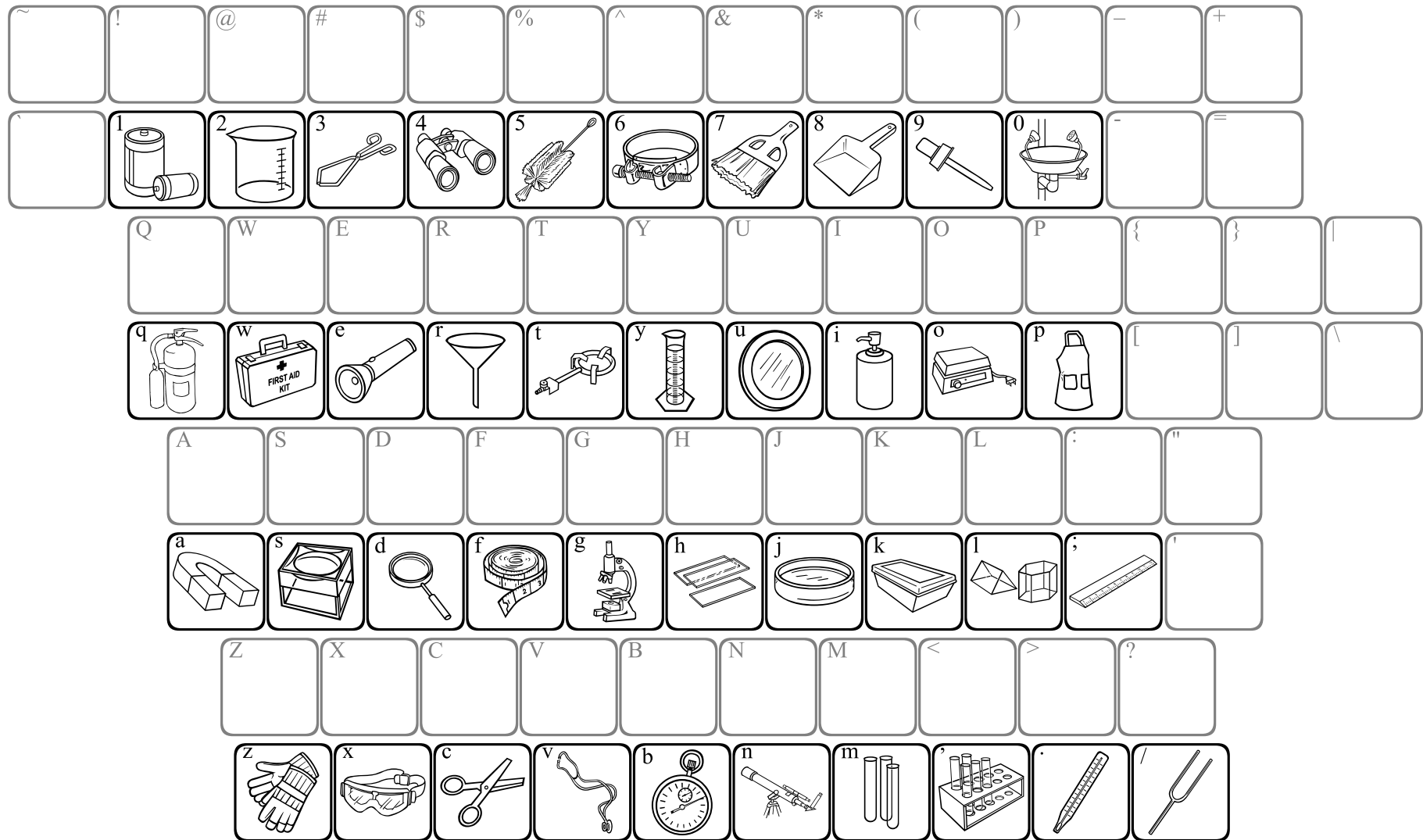
# 123Scales3

The gray portions are shown only for reference and do not appear when typing.






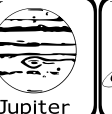

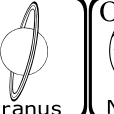
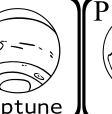

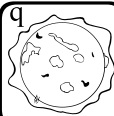

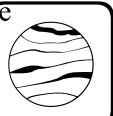

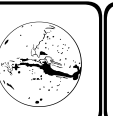

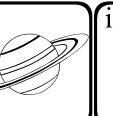
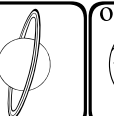
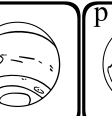

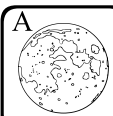

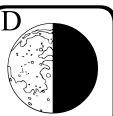
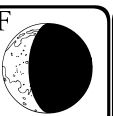

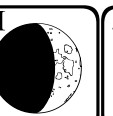


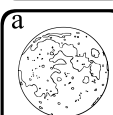

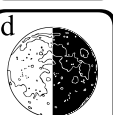


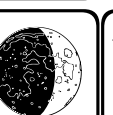


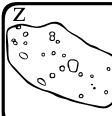
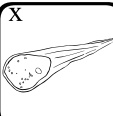
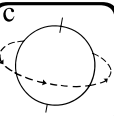

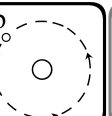
Press the Space Bar to advance the cursor one full unit until you reach your goal number, then place the bottom slider.



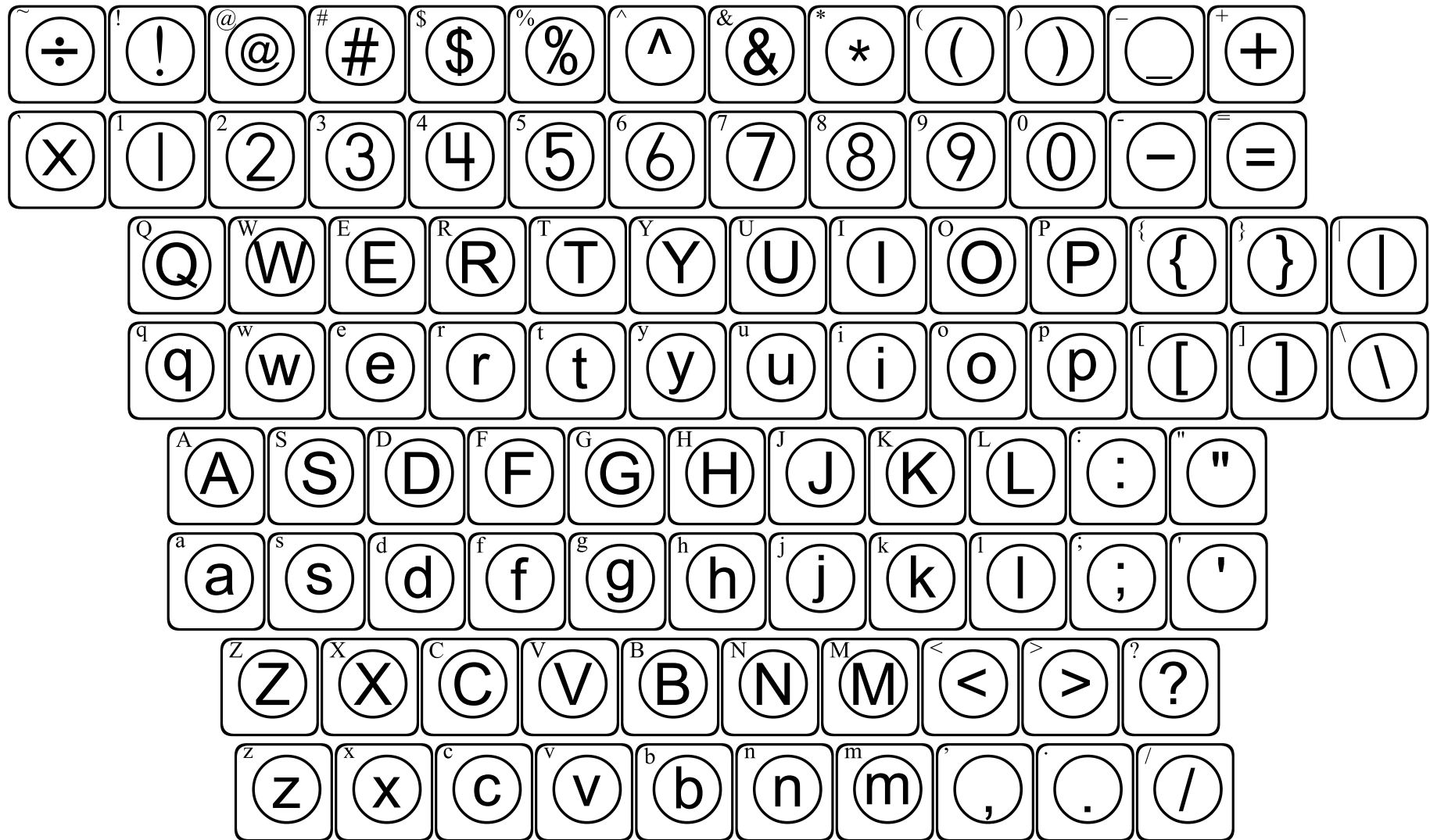
# 123ScienceTools



# 123Space1

~	!	@	#	\$	%	^	&	*	(	)	-	+
^	1	2	3	4	5	6	7	8	9	0	-	=
Q  Sun	W  Mercury	E  Venus	R  Earth	T  Mars	Y  Jupiter	U  Saturn	I  Uranus	O  Neptune	P  Pluto	{	}	
q  Sun	w  Mercury	e  Venus	r  Earth	t  Mars	y  Jupiter	u  Saturn	i  Uranus	o  Neptune	p  Pluto	[	]	\
A 	S 	D 	F 	G 	H 	J 	K 	L	:	"		
a 	s 	d 	f 	g 	h 	j 	k 	l	;	'		
Z	X	C	V	B	N	M	<	>	?			
z 	x 	c 	v 	b 	n	m	,	.	/			

# 123Testing



# 123Thermometer1-4

The four thermometer fonts all work the same way, but each is marked with different increments.

Font	Counts by
123Thermometer1	1
123Thermometer2	2
123Thermometer3	5
123Thermometer4	10

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 third of the thermometer, A through “ (quotes mark) fill the middle section, and z through . (period) can fill the top third.

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 past the thermometer before continuing to type.

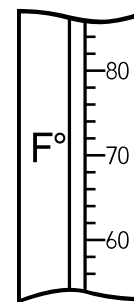
Because the cursor does not move until you press “space”, you can press several of the “fill” keys until you find the one that you want. Also, it is possible to change the color of the “fill” by changing the font color after you have placed the thermometer and before you press a “fill” key.

## Example

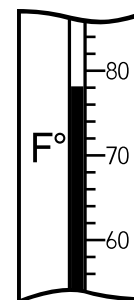
Goal: Create a thermometer showing 78°F.

Step 1: Choose a thermometer font. This example uses 123Thermometer2.

Step 2: Select a thermometer face that contains 78° in its range. You can use either p or [. This example uses p.

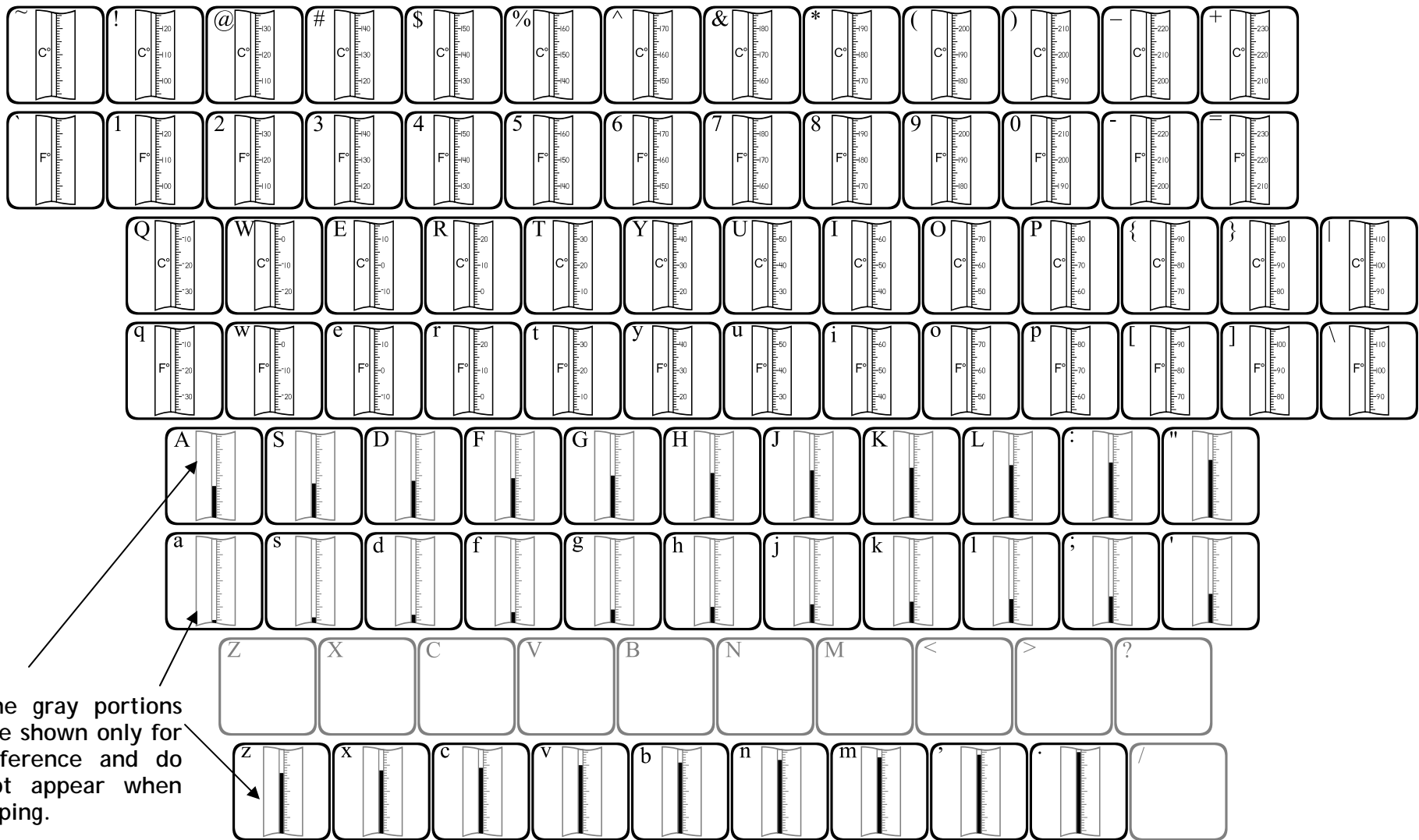


Step 3: Locate the key that contains a fill level that will reach the 78° mark. In this case, use the x.



**NOTE:** Fill levels increase as you move across the keyboard from left to right. Since the cursor does not move until you press the space bar, you can simply type keys from left to right until you reach the desired fill level.

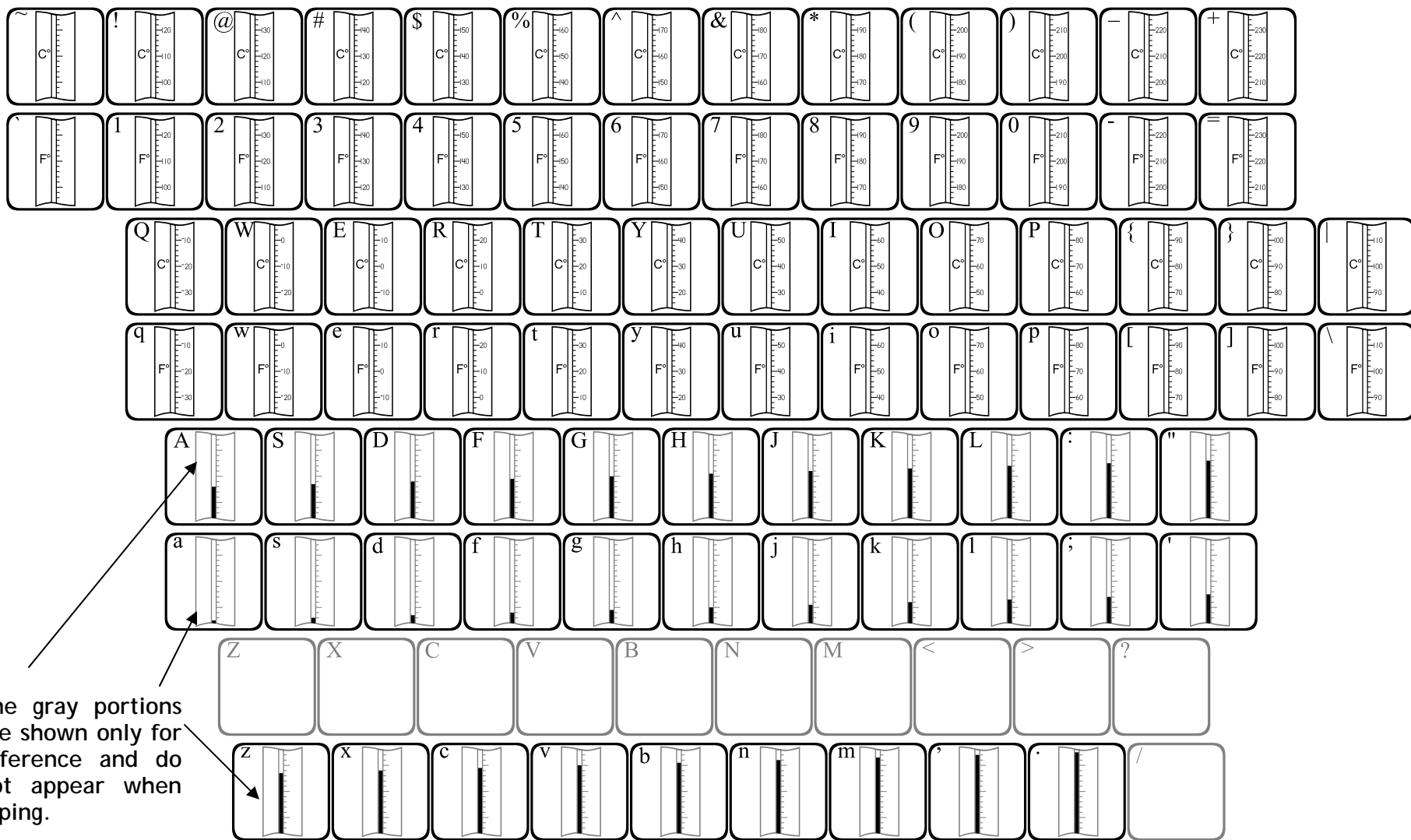
# 123Thermometer1



The thermometers can be "filled" to many different levels. First type in a thermometer face, then type in a "fill". The fill level will appear inside the thermometer.

Typing in several "fills" will cause them to overlap, allowing you to press multiple keys until you reach the fill level you desire.

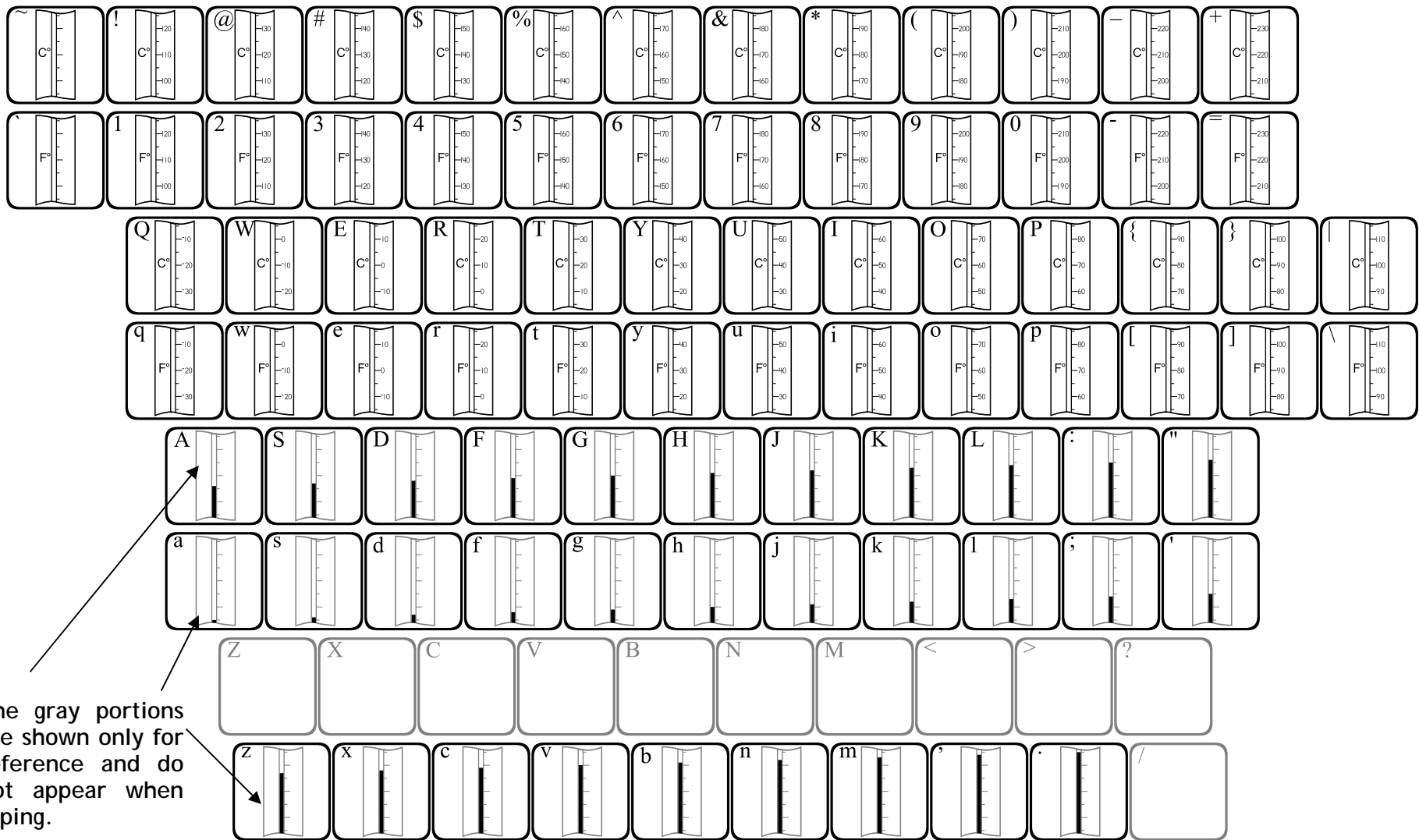
# 123Thermometer2



The thermometers can be “filled” to many different levels. First type in a thermometer face, then type in a “fill”. The fill level will appear inside the thermometer.

Typing in several “fills” will cause them to overlap, allowing you to press multiple keys until you reach the fill level you desire.

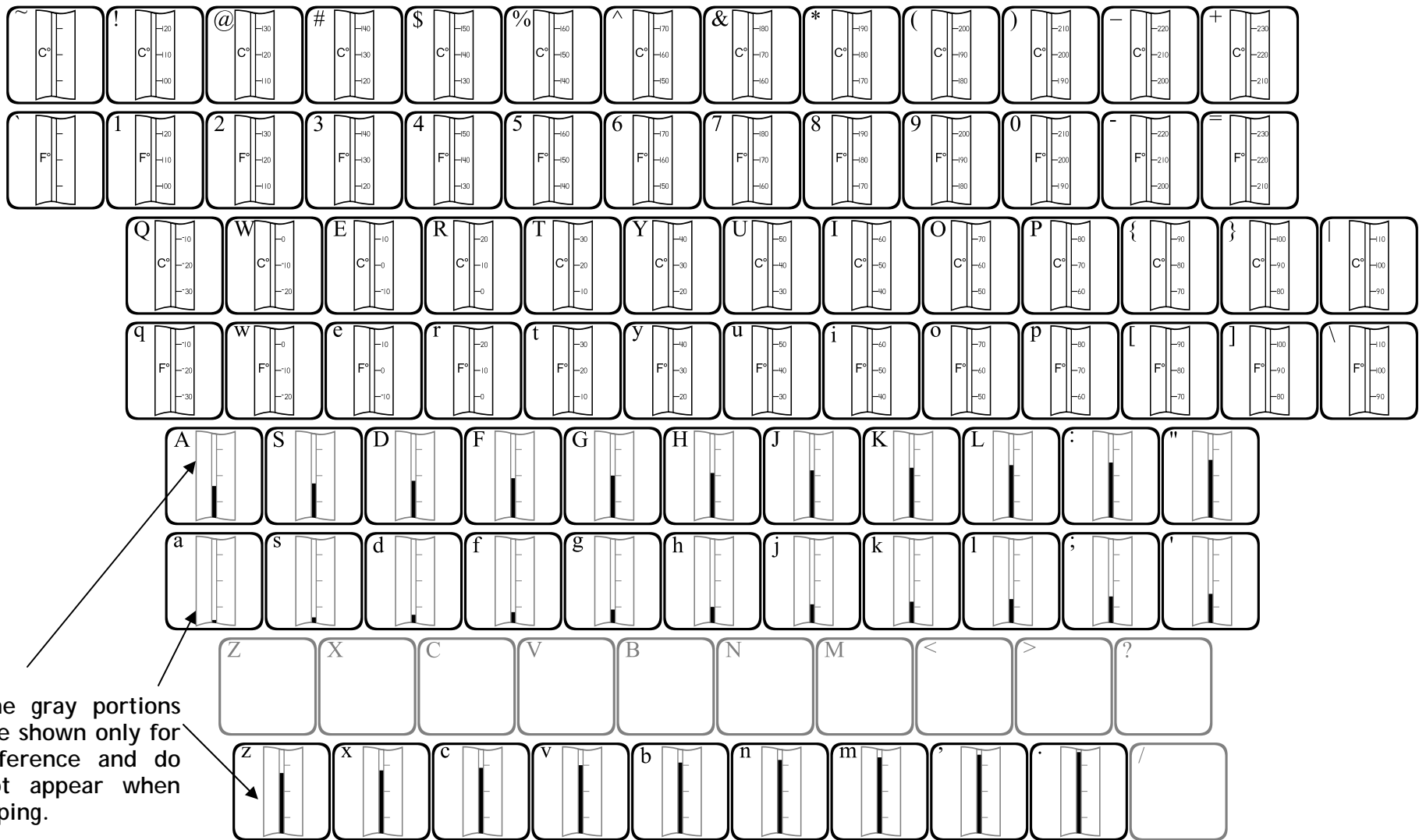
# 123Thermometer3



The thermometers can be “filled” to many different levels. First type in a thermometer face, then type in a “fill”. The fill level will appear inside the thermometer.

Typing in several “fills” will cause them to overlap, allowing you to press multiple keys until you reach the fill level you desire.

# 123Thermometer4


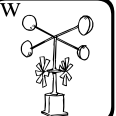
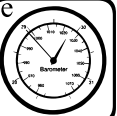
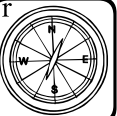

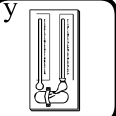
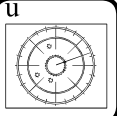

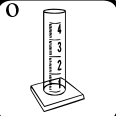
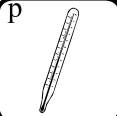




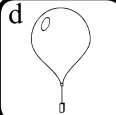




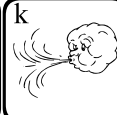
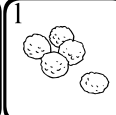




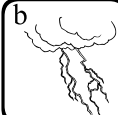
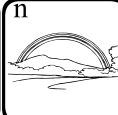






The thermometers can be "filled" to many different levels. First type in a thermometer face, then type in a "fill". The fill level will appear inside the thermometer.

Typing in several "fills" will cause them to overlap, allowing you to press multiple keys until you reach the fill level you desire.



# 123Weather1

~	!	@	#	\$	%	^	&	*	(	)	-	+
`	1	2	3	4	5	6	7	8	9	0	_	=
Q	W	E	R	T	Y	U	I	O	P	{	}	
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 	;	'		
Z	X	C	V	B	N	M	<	>	?			
z 	x 	c 	v 	b 	n 	m 	' 	' 	' 			

# 123Weather2

~	!	@	#	\$	%	^	&	*	(	)	-	+
`	1	2	3	4	5	6	7	8	9	0	_	=
Q	W	E	R	T	Y	U	I	O	P	{	}	
q	w	e	r	t	y	u	i	o	p	[	]	\

Category 1   Category 2   Category 3   Category 4   Category 5   F0   F1   F2   F3   F4   F5

A	S	D	F	G	H	J	K	L	:	"
a	s	d	f	g	h	j	k	l	;	'
Z	X	C	V	B	N	M	<	>	?	
z	x	c	v	b	n	m	,	.	/	

altocumulus   altostratus   cirrocumulus   cirrostratus   cirrus   cumulonimbus   cumulus   nimbostratus   stratocumulus   stratus