

JavaScript Item Type Screen Shots



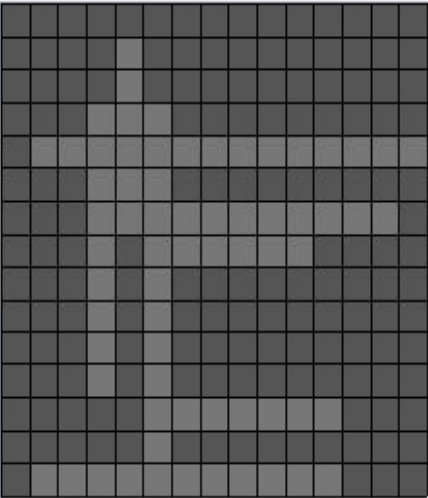
This document contains a select few screen shots of our JavaScript item types. Descriptions are included alongside the images.

Biology

Example 1


U of A 0:00:12

Reset Help Show Submit




A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z				

area, form a _____. (9)



3. _____ is an association in which one organism benefits but the other is not harmed. For example, one organism may consume the unused food of another as in the case of the remora and the shark feeds, the remora picks up scraps. (12)



4. _____ is an association in which both the organisms benefit mutually. For

This item type deals with filling out a crossword puzzle (using either keyboard or the provided buttons) in order to answer the question/hints on the right. In this example the student is asked to fill the crossword puzzle with the words that are suppose to be in the blank spaces.

Biology

Example 2

U of A
V 1.0

0:00:02

Reset Help Show Submit

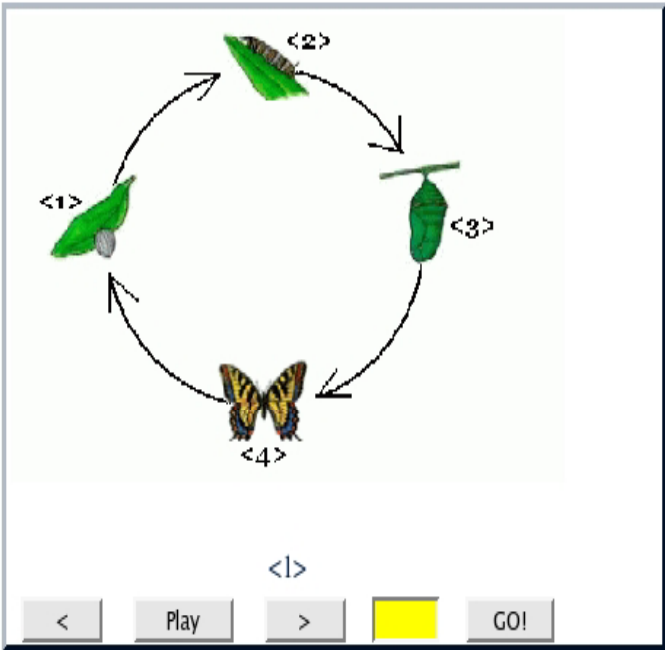
Look at the image of the life cycle of a butterfly then match up the stage's name with their position on the diagram.

<1> Select to match

<2> Select to match

<3> Select to match

<4> Select to match



<1>

<2>

<3>

<4>

<1>

<

Play

>

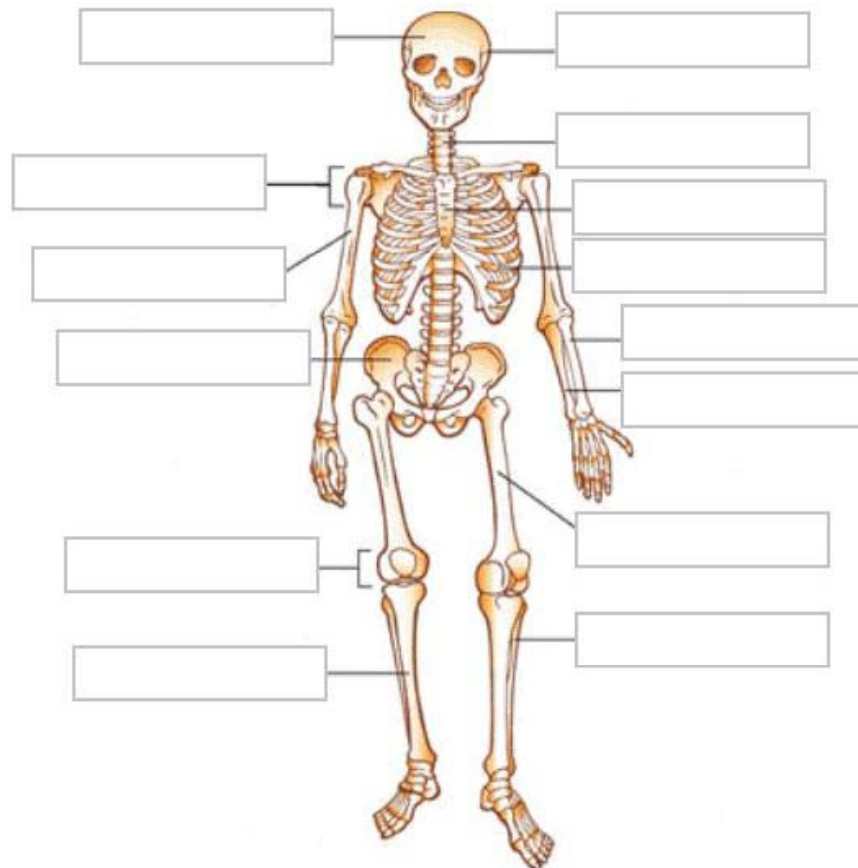
GO!

This item type plays a series of image(s) on the right panel and asks the student to match an appropriate response using the drop down menu on the left. For this example the life cycle of a butterfly is displayed and the students are asked to match each stage of the cycle with their respective names.

Biology

Example 3

Humerus
Radius
Skull
Ulna
Hinge Joint (Knee)
Ball and Socket Joint (Shoulder)
Sternum
Femur
Vertebra
Fibula
Fixed Joint (Parieto - Temporal)
Pelvis
Tibia
Rib



This item type deals with labeling of diagrams by using draggable text that can then be dropped onto predefined boxes on the diagram.

In this example we can drag each text from the gray box on the left to their correct places on the diagram that is on the right.

Biology

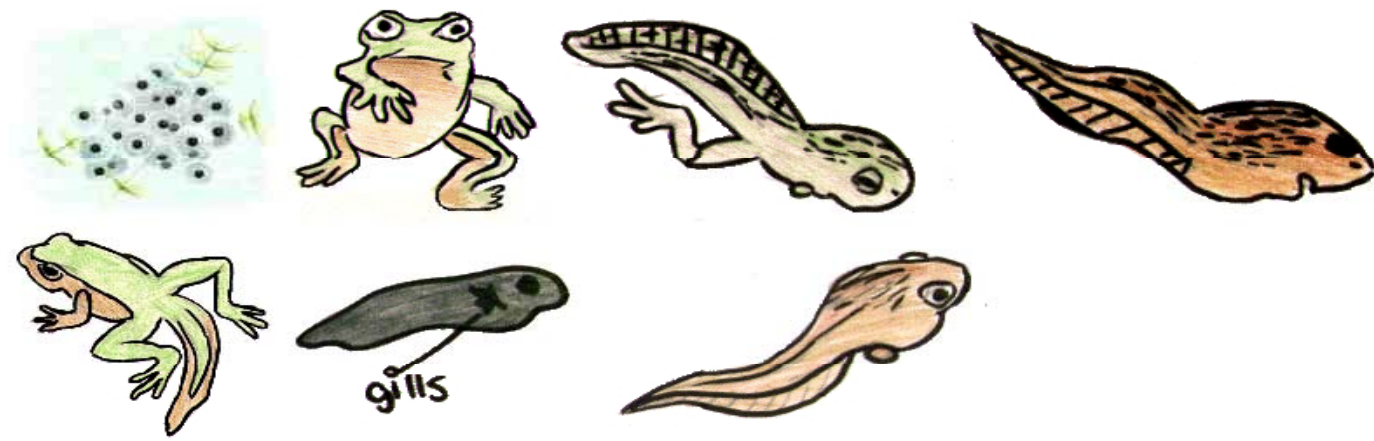
Example 4

U of A
V 1.0

0:00:05

Reset Help Show Submit

line up the frog life stage in correct order.



This item type is a drag and drop reordering type. Here you are asked to reorder the images of the different stages of a frog's life cycle so that they are in the correct order from egg to adult. That is done by clicking down on the image and moving it to the position that it should be in. The other images are shifted around the image being dragged.

Chemistry

Example 1

U of A
V 1.0 0:00:02

Reset

Help

Show

Submit

Using the following information to answer the next question.

Animals take in nutrients into the body by the process of ingestion. Nutrients are broken down into simpler substances in the alimentary canal. This process of breaking of complex nutrients into simple substances is called hydrolysis.

The following reaction represents hydrolysis. please line up in the correct order.



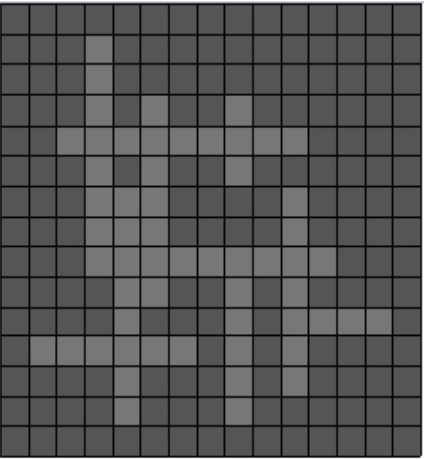
This is another rearranging question but uses components of a chemical equation.

Chemistry

Example 2

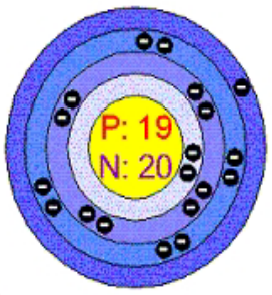
U of A V 1.0 0:00:05

Reset Help Show Submit

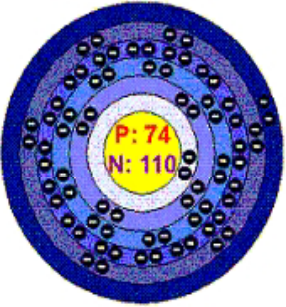


A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z				

1. K (9)



2. W (8)



Another
crossword
puzzle
example.







Chemistry

Example 3

U of A V 1.0 0.00:03 No Previous Answer given

Reset Help Show Submit

Information: It is uncommon for scientists to discover bottles containing unknown liquids in their labs. on the right hand, you will find some labels, please drag the instructions to match them.

Dangerously Reactive Material		
Corrosive Material		
Biohazardous		
Infectious Material		
Material Causing Immediate and Serious Toxic Effects		
Material Causing Other Toxic Effects		
Flammable and Combustible Material		
Oxidizing Material		
Compressed Gas		

This item type asks the user to drag the words on the left to match the symbols on the right by dropping them in the drop boxes.

Chemistry

Example 4

U of A V 1.0 0:03:16

Reset Help Show Submit

Give the chemical formulas of the following compounds.

0	1	2	3	<	→	cos	π	a	b	c	d	e	f	g
3	4	5	6	>	←	sin	x^2	h	i	j	k	l	m	n
7	8	9	.	≤	↔	tan	x_2	o	p	q	r	s	t	u
+	*	÷	=	≥	↔	acos	θ	v	w	x	y	z	Delete	
-	()	%	√	∫	asin	atan	Log	Space	Caps lock	Backspace			

Sodium Carbonate	Cobalt(II) Nitrate	Ammonium Phosphate	Nitrous Acid
<input type="text"/>	<input type="text" value="Co(NO<sub>3</sub>)<sub>2</sub>"/>	<input type="text" value="(NH<sub>4</sub>)<sub>3</sub>PO<sub>4</sub>"/>	<input type="text"/>
Phosphoric Acid	Sulfurous Acid	Aluminum Sulfate	Ferrous Hydroxide
<input type="text" value="H<sub>3</sub>PO<sub>4</sub>"/>	<input type="text"/>	<input type="text" value="Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>"/>	<input type="text"/>
Carbonic Acid	Copper(II) Hydroxide	Xenon Tetrafluoride	Arsenic Tribromide
<input type="text"/>	<input type="text" value="Cu(OH)<sub>2</sub>"/>	<input type="text"/>	<input type="text" value="AsBr<sub>3</sub>"/>

Another Chemistry example where the user is asked to name the given chemical compounds using the keypad or the keyboard to input their answer

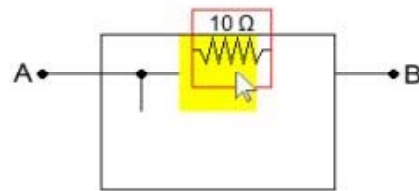
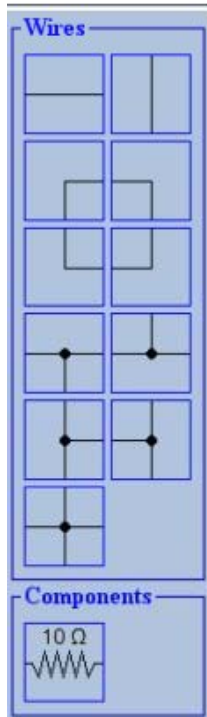
Physics

Example 1

U of A
V 1.0 0:14:04

Reset Help Show Submit

Build a circuit connecting A to B so that the 2 resistor components are in parallel. Make sure there are no hanging wires in your circuit.



This is a drag and drop physics question in which the student must build a particular circuit by dragging and dropping components from the left onto areas on the right.

Physics

Example 2

U of A
V 1.0

0:00:04

Reset


Help

Show

Submit

Read the following information and correctly order the phases of the moon.

The light from the moon is light reflected from the sun. As the moon orbits Earth, We are able to see different parts of the sunlit side of moon. These are called phases of the moon. The cycle of the phases of the moon begin with a new moon. In the full moon phase, we are able to see the entire sunlit side of the moon. This cycle occurs month after month as the moon orbits around Earth. If you were living on the moon you would see Earth go through the same phases.



In this example the user is required to reorder the objects shown on the screen based on the question asked by dragging and dropping the objects to their correct position on the screen.

Physics

Example 3

U of A
V 1.0

0:01:29

Reset Help Show Submit

Please find out the volume of the object by using the following tools and calculate its density. Density: mass/volume.

The volume of the objects within the cylinder: 1428.5714285714287ml

The density of the object within the cylinder = ? kg/m³

In this example the user is required to drag and drop the objects shown into the container and then use the volume and mass of the object to compute the density of the object

Physics

Example 4

UofA
V 1.0

0:03:13

Reset

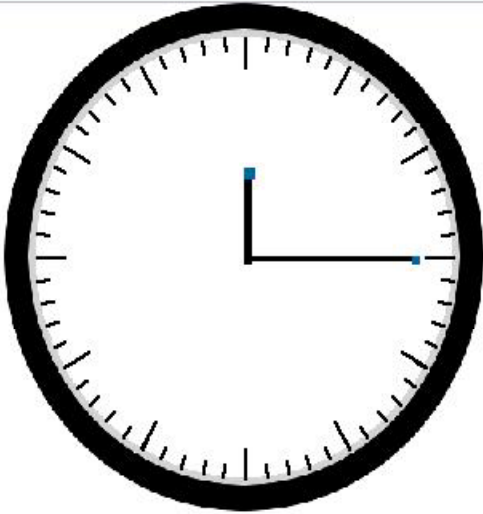
Help

Show

Submit

Please make the clock hands match the digital time

12 : 12 am



In this example the user is suppose to drag the two arms of the clock to match the digital time shown besides it.

Physics

Example 5

U of A
V 1.0

0:00:50

Reset

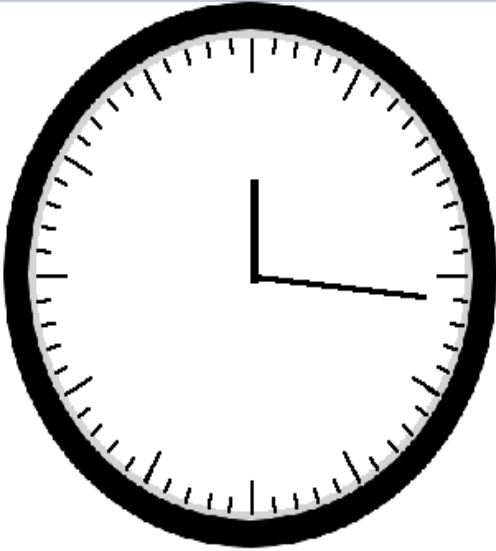
Help

Show

Submit

Please make the digital time match the clock hands

12 : 12 am



Same as the previous example but this time the user is required to set the digital time to match the analog clock

Mathematics

Example 1

U of A
V10

0:01:37

Reset

Help

Show

Submit

If you bought a CD for \$5.00 and some tape for \$3.49, how much do you need?



Subtotal: \$8.49

Amount Left: \$0.00

This item type help students with math as well as currency and small change.

This is done by dragging the correct change into a box as specified by the question.

Mathematics

Example 2

This is a graphing item type where the student can input the y coordinate corresponding to its x coordinate.

The student can then plot them by dragging the point that appears under the Points box to its appropriate position on the graph.

U of A V 1.0 0:00:08

Reset Help Show Submit

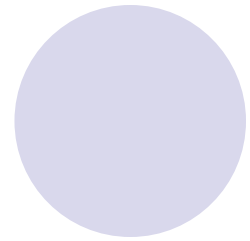
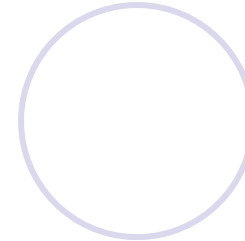
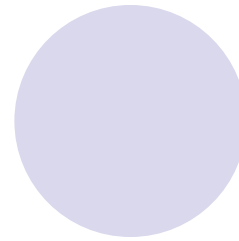
Complete the chart of the exponential function below. Then, drag each coordinate to the correct location on the graph.

x	$y=3*2^x$	Coordinates (x, y)
2	12	(2, 12)
3	24	(3, 24)
1	6	(1, 6)
4	48	(4, 48)

Points

Mathematics

Example 3



U of A
V 1.0

0:00:03

Reset

Help

Show

Submit

Question: Distribute the weight equally into these two baskets:

Use left mouse button to drag numbers.

10

10

20

44

20

26

30

Bin 1

Bin 2

This is an example of a balanced weight problem. The students need to distribute the colored squares by dragging and dropping them into the two bins so that the two bins are both equal in weight.

Mathematics

Example 4

U of A V 1.0 0:00:12

Reset Help Show Submit

Evaluate each pair of fractions with a coloured box between them, and determine if they are equal, greater then, or lesser then. Drag the corresponding sign from the 'Signs' box on the left to the coloured box.

Signs

=

>

<

$$\frac{3}{6} \square \frac{1}{2}$$

$$\frac{1}{3} \square \frac{4}{6}$$

$$\frac{3}{8} \square \frac{3}{9}$$

$$\frac{4}{5} \square \frac{7}{8}$$

$$\frac{2}{8} \square \frac{1}{4}$$

$$\frac{5}{7} \square \frac{6}{7}$$

$$\frac{3}{4} \square \frac{6}{8}$$

$$\frac{1}{1} \square \frac{2}{3}$$

$$\frac{3}{5} \square \frac{4}{7}$$

This question requires the student to complete the fraction comparison by dragging the appropriate operators to the colored box between the fractions.

The operators are cloned when dragged so that students can drag an infinite amount of any operators.

Mathematics

Example 5

U of A
V 1.0

0:00:15

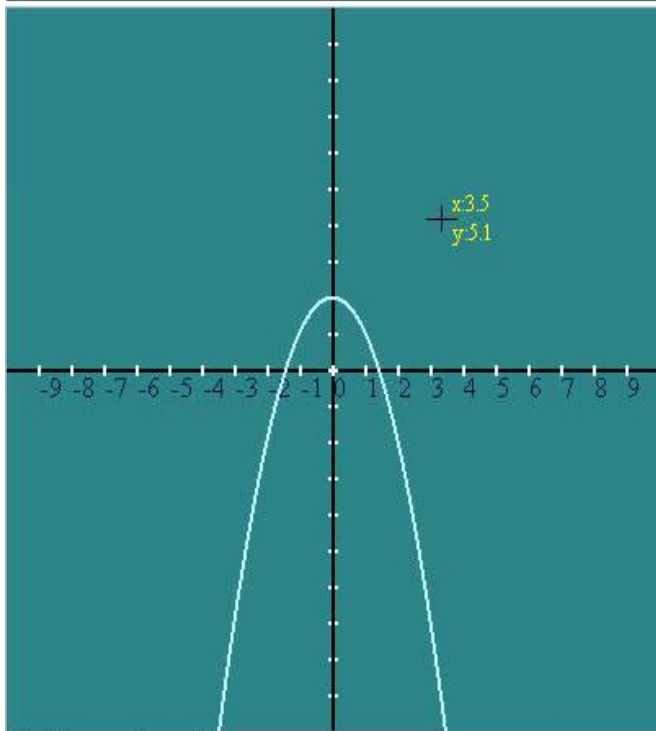
Reset

Help

Show

Submit

Find the maximum(s)



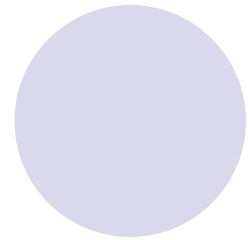
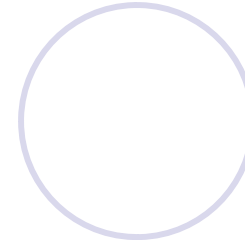
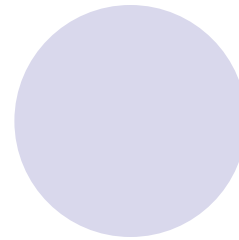
Find the maximum(s)

Another graphing type question, though this one lets you interact directly with the graph.

The student can click anywhere on the blue graph to plot a point. In this example's case, the point has to be the maximum of the quadratic graph.

Mathematics

Example 6

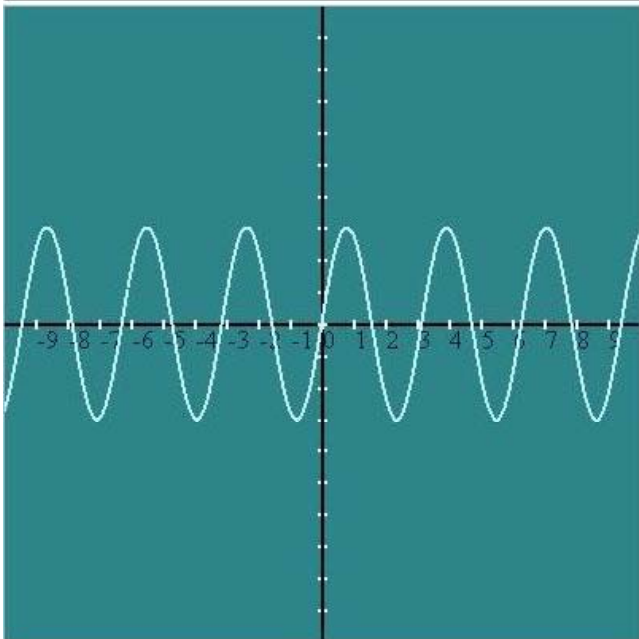


U of A
V 1.0 0:00:05

Reset Help Show Submit

A technologist at the plant monitors the voltage output pattern of a generator, as illustrated above.

An equation that could be used to produce the graph above is



- ☐ $\sin 2x$
- ☐ $\sin 3x$
- ☐ $3 \sin x$
- ☐ $3 \sin 2x$

This uses the same item type as the one before, except the graph interactivity has been disabled and the students can answer the question via multiple choice.

The advantage of this is that the graph is generated via an equation dynamically and not a static image.

Mathematics

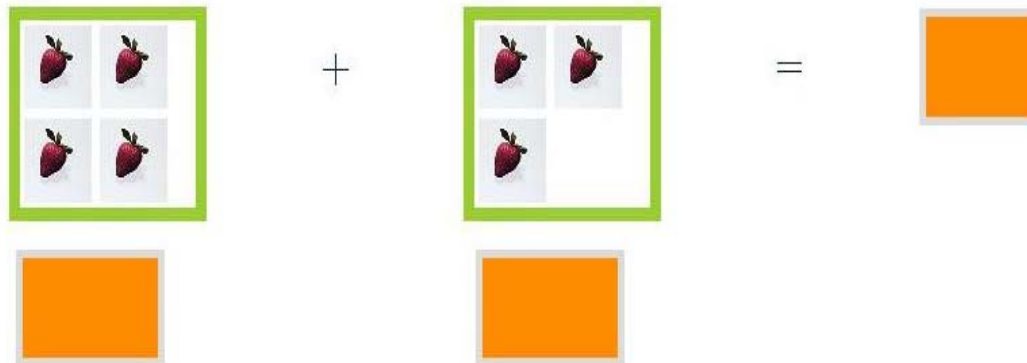
Example 7

U of A V 1.0 0:00:04

Mathematics drag and drop: Please Drag and drop the image to relate the numbers with the symbols and enter the answer of the question to the orange box

0	1	2	3	+
4	5	6	7	*
8	9	=	-	/

a	b	c	d	e	f	g
h	i	j	k	l	m	n
o	p	q	r	s	t	u
v	w	x	y	z		



This is a fill in the blank math equation problem.

The student can answer the question by typing in or using the button provided in the gray boxes to fill in the orange squares appropriate to the question.

Mathematics

Example 8

U of A
V 1.0 0:00:07

Reset Help Show Submit

Mathematics drag and drop: Please Drag and drop the image to relate the numbers with the symbols in the purple box and enter the answer of the question to the orange box

0	1	2	3	+
4	5	6	7	*
8	9	=	-	/

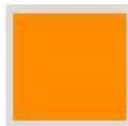
a	b	c	d	e	f	g
h	i	j	k	l	m	n
o	p	q	r	s	t	u
v	w	x	y	z		

4

+

3

=



Using the same item type as the one before, this time the student needs to drag the strawberry (which will clone itself) into the purple boxes so that the amount of strawberries in the boxes correspond to the number above it.

The student would also need to fill in the orange square to finish the equation as well.

Mathematics

Example 9

U of A
V 1.0

0:00:02

Read the passage given below and using it state the inequality that best present the passage and state the final solution

0	1	2	3	<	→	cos	π	a	b	c	d	e	f	g
3	4	5	6	>	←	sin	x^2	h	i	j	k	l	m	n
7	8	9	.	≤	↔	tan	x_2	o	p	q	r	s	t	u
+	*	÷	=	≥	↔	acos	θ	v	w	x	y	z	Delete	
-	()	%	√	∫	asin	atan	Log	Space	Caps lock	Backspace			

Marcus can spend no more than \$120 on jeans and shirts for school. He buys 3 pairs of jeans at \$32 dollars each, including GST. Let x represent the dollar amount he can spend on shirts. Using the following items, state the inequality that could be used to determine the possible values of x and solve for the value of x.

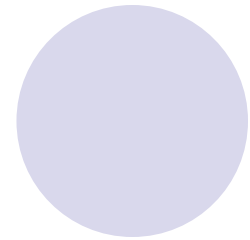
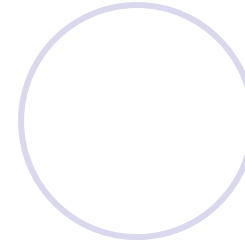
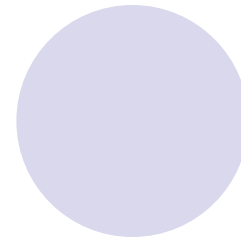
3+120

This item type requires the student to fill in the boxes either by keyboard or by the buttons provided.

For this example the student is required to finish the math equation with the provided information.

Mathematics

Example 10



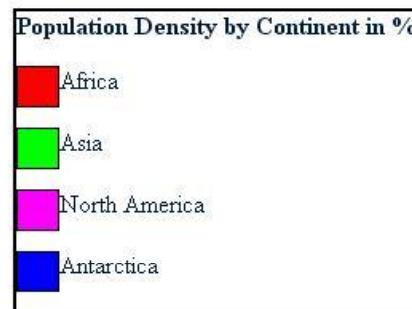
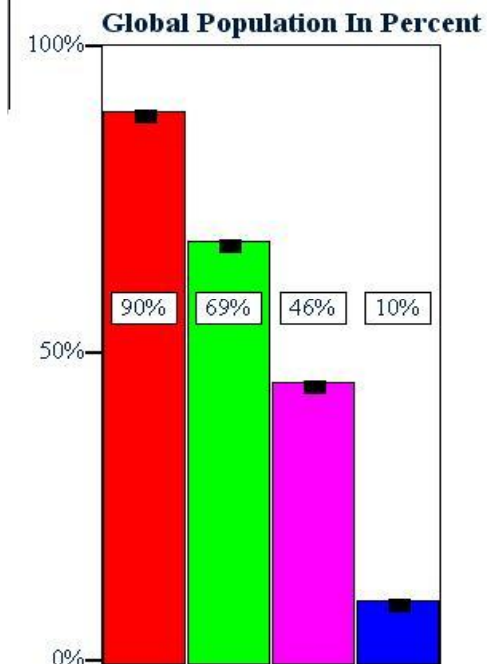
U of A
V 1.0 0:03:01

Reset Help Show Submit

Graph the values represented in the Question Box on the graph object below.

Question Box

Africa: 20
Asia: 50
North America: 20
Antarctica: 10



This item type allows users to adjust the bar graph accordingly to what the question asks for.

As in this example, we are required to make the bar graph match the information in the question box.

Mathematics

Example 11

U of A V 1.0 0:01:10

Please Fill in Frequency for each Marks(%) by using Calculus Marks table

5	5	5	5	5	7	7	7	7	7	
7	7	7	7	7	9	9	9	10	10	
10	10	10	10	10	10	10	10	10	10	
13	13	13	15	15	15	15	15	15	15	
15	15	15	15	15	15	15	15	16	16	
16	16	16	16	16	16	16	16	16	16	
16	16	16	16	16	16	16	18	18	18	
18	18	18	18	18	18	18	18	18	18	
18	18	18	19	19	19	19	19	20	20	
20	20	20	20	20	20	20	20	20	20	

Marks(%)	5	7	9	10	13	15	16	18	19	20
Frequency	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

At least Students received mark less or equal than 10

A total of students received more than 16

This item type asks the user to organize the table into a frequency distribution table by entering the frequency of each number in the space provided.

English

Example 1

U of A
V 1.0

0:01:45

No hint available

Reset

Help

Show

Submit

Please highlight the "CLIMATE AND WEATHER SYSTEMS" in yellow. Highlight the first "albedo" in red. Highlight the sentence about the reason why water can influence climate in Blue. Highlight the first "jet stream" in green. And lastly, highlight "In contrast" in grey.

current color:blue

CLIMATE AND WEATHER SYSTEMS

Solar energy that enters the atmosphere, hydrosphere, and lithosphere drives our weather systems. The effects of solar heating are not the same everywhere. The **albedo** effect determines the extent to which light reflects off a surface. Ice has a very high albedo; that is, most light reflects off ice. In contrast, dark rocks have a low albedo; that is, most light hitting dark rocks is not reflected (it is absorbed and turned to heat).

At the border between the cold arctic air and the warm southern air high up in the atmosphere, there is a constant west-to-east wind called the jet stream. Normally, the **jet stream** flows above the southern border of Canada. Sometimes, the jet stream shifts more to the north, causing Canada to be covered with warm southern air. Other times, the jet stream shifts to the south, and Canada is completely covered in cold northern air.

Because water has a high specific heat capacity, a large body of water can moderate an area's temperatures, thereby influencing climate. A warm current in the Pacific brings warm

This item is a highlight word item type. It allows the user to choose their highlight colour by clicking on one of the colours on top of the highlight area. The user then can drag their cursor over a series of characters/words to highlight them.

This examples has the student highlight different part of the passage in different colours.

English

Example 2

U of A
V 1.0

0:00:06

Reset

Help

Show

Submit

Rearrange the following words given in the sentence below so that the sentence becomes grammatically correct by dragging and dropping each word at their correct positions in the space provided below.

Peter	for	tennis	played	five	years	when	he	school	was	at
-------	-----	--------	--------	------	-------	------	----	--------	-----	----

This example tests the student's grammar abilities by having them dragging and dropping each component of the sentence so they can rearrange it to be grammatically correct.

English

Example 3

U of A
V 1.0

0:00:07

Reset Help Show Submit

Select the word 'MANTLE'

Selecting is turned off. Click on letter to turn on.

A	M	E	T	A	M	O	R	P	H	I	C
S	B	E	F	G	M	O	S	P	Y	G	R
M	A	N	T	L	E	C	N	L	U	N	U
N	R	A	C	I	L	S	L	Q	E	S	M
I	L	G	U	J	F	R	A	V	O	T	E
T	S	P	Q	U	A	R	T	Z	U	L	Y
R	A	T	N	E	M	I	D	E	S	O	Z

Selected Words

This item is a word search item type. It provides the user the ability to select certain words from the letter pallet.

In this example, the user is asked to select the word MANTLE by using the mouse to click and then drag to select.

English

Example 4

U of A
V 1.0



0:00:34





Reset Help Show Submit

Please spell the word and drag the related image to the purple box.

0	1	2	3	+
4	5	6	7	-
8	9	=	/	

a	b	c	d	e	f	g
h	i	j	k	l	m	n
o	p	q	r	s	t	u
v	w	x	y	z		

a p  l 



In this example the user is asked to complete the word given by typing it using the keyboard or using the keypad and then drag one of the fruits that corresponds to the word into the purple box below the word.

English Example 5

U of A
V 1.0

0:29:54

Reset

Help

Show

Submit

Please drag the letters to form three words (hint: three kinds of animals.)

K O A L A G R O F

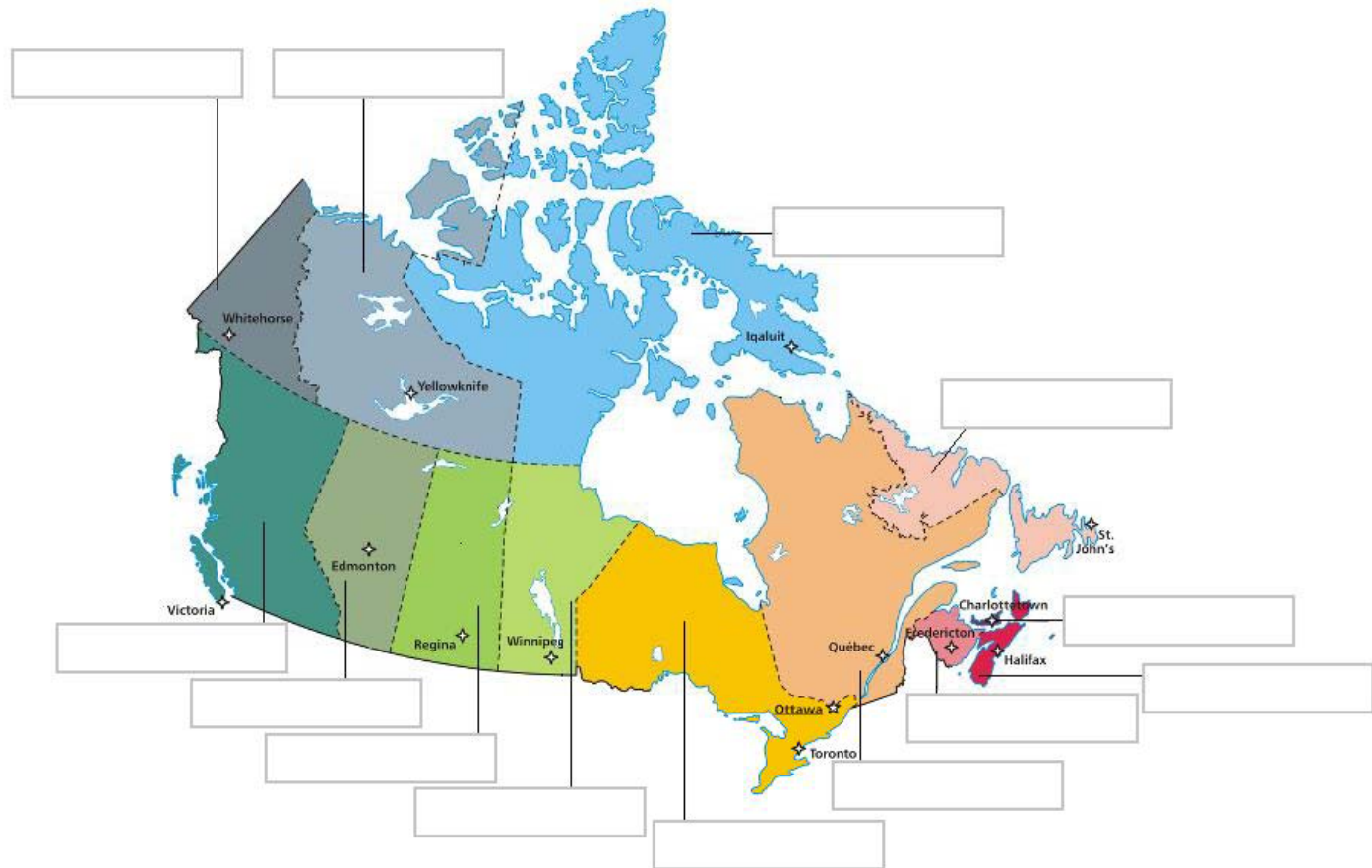
B U T T E R F L Y

This
example
asks the
user to drag
the letters at
the top to
form words
at the bottom

Geography

Example 1

Alberta
Yukon
Quebec
Nova Scotia
Nunavut
Northwest Territories
Manitoba
British Columbia
New Brunswick
Prince Edward Island
Saskatchewan
Newfoundland and Labrador
Ontario



Another example of labeling a diagram item type. This time naming the Canadian provinces.

Geography

Example 2

U of A
V 1.0

0:00:05

Reset

Help

Show

Submit

Look at the flag on the right then match up their name of the country they represent on the left.


<1> Select to match ▾

<2> Select to match ▾

<3> Select to match ▾

<4> Select to match ▾

<5> Select to match ▾




<1>

<

Play

>



GO!

Here the students must go through all the flag pictures played on the right panel then use the drop down box to match the correct country names to the flags.

Geography

Example 3

U of A
V 1.0

0:00:04

Reset

Help

Show

Submit

Line up the flags in the following order: Canada, United States, England, Brazil, Japan



The student is required to rearrange the flags via drag and drop so that it matches the order specified in the question.

Social

Example 1

U of A
V 1.0

0:00:17

No Previous Answer given

Reset

Help

Show

Submit

Drag the text from the box on the right to the appropriate label on the image

England		Bishkek
China		Baghdad
Dominican Republic		Accra
Argentina		London
Ghana		Budapest
Finland		Buenos Aires
Iraq		New Delhi
Botswana		Helsinki
India		Gaborone
Hungary		Santo Domingo
Israel		Beijing
Kyrgyzstan		Jerusalem

In this example the user is asked to drag the text on the left of the screen into the drop boxes provided to match the labels.

Social



Example 2

U of A
V 1.0

0:00:09

Reset Help Show Submit

Drag the text from the box on the right to the appropriate label on the image

France		
Argentina		
Australia		
Costa Rica		
Netherlands		
Czech Republic		
Ghana		

Another example where the user is asked to drag the country name to match the national flags.

Social

Example 3

U of A
V 1.0

0:01:18

Reset Help Show Submit

Name the Presidents or Prime Ministers indicated by the pictures

<1> Stephen Harper

<2> Select to match

<3> Select to match

<4> Select to match

<5> Select to match

<6> Select to match

<7> Robert Mugabe



<7>

< > Play >

GO!

In this example the user is expected to watch the image slide show and then select the names in the drop down menu on the left to match each image