

**The Comprehensive
NetSciDraw
Functional Manual**

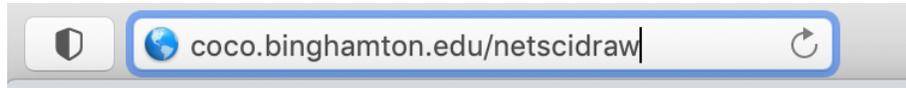
Table of Contents → Click on the Section You Want to View

How to Find NetSciDraw on the Web	4
How to Launch the NetSciDraw Application	5
A Closer Look at NetSciDraw’s Opening Screen	6
A Closer Look at NetSciDraw’s Toolbar	7
A Closer Look at NetSciDraw’s Sidebar	9
How to Create Shapes	13
Creating Circles on Non-Touchscreen Devices	15
Creating Boxes on Non-Touchscreen Devices	16
Creating Triangles on Non-Touchscreen Devices	17
Creating Stars on Non-Touchscreen Devices	18
Creating Circles on Touchscreen Devices	19
Creating Boxes on Touchscreen Devices	20
Creating Triangles on Touchscreen Devices	21
Creating Stars on Touchscreen Devices	22
How to Create Houses	23
Creating Houses on Non-Touchscreen Devices	24
Creating Houses on Touchscreen Devices	25
How to Edit Shapes	27
Adding Text Within a Shape	28
Changing a Shape’s Outline Color	29
Increasing the Size of a Shape	30
Decreasing the Size of a Shape	31
Duplicating a Shape	32
Deleting a Shape	33
How to Create Arrows	34
Creating Arrows on Non-Touchscreen Devices (Shape to Shape)	36
Creating Arrows on Non-Touchscreen Devices (Shape to Itself)	37
Creating Arrows on Touchscreen Devices (Shape to Shape)	38
Creating Arrows on Touchscreen Devices (Shape to Itself)	39
How to Edit Arrows	40
Changing an Arrow’s Color	41

Increasing the Size of an Arrow	42
Decreasing the Size of an Arrow	43
Deleting an Arrow	44
How to Create Text (or Labels)	45
Creating Text on Non-Touchscreen Devices.....	47
Creating Text on Touchscreen Devices	49
How to Edit Text (or Labels)	50
Editing Text Within a Label	51
Changing a Label's Font Color	52
Increasing the Size of a Label's Font	53
Decreasing the Size of a Label's Font.....	54
Duplicating a Label	55
Deleting a Label.....	56
How to Move a Network or Individual Elements	57
Moving Your Whole Network on Non-Touchscreen Devices.....	59
Moving Shapes on Non-Touchscreen Devices	60
Moving Arrows on Non-Touchscreen Devices	61
Moving Text on Non-Touchscreen Devices.....	63
Moving Network Elements on Non-Touchscreen Devices	64
Moving Your Whole Network on Touchscreen Devices	67
Moving Shapes on Touchscreen Devices	68
Moving Arrows on Non-Touchscreen Devices	69
Moving Text on Non-Touchscreen Devices.....	70
Moving Network Elements on Touchscreen Devices.....	71
How to Erase Network Elements	74
Erasing Shapes on Non-Touchscreen Devices.....	76
Erasing Arrows on Non-Touchscreen Devices	78
Erasing Text on Non-Touchscreen Devices	79
Erasing Shapes on Touchscreen Devices	80
Erasing Arrows on Touchscreen Devices.....	81
Erasing Text on Touchscreen Devices.....	82
How to Save Your NetSciDraw Project (.nsd File)	83
How to Save Your NetSciDraw Project as an Image	85
How to Open a Previously Saved NetSciDraw Project	87

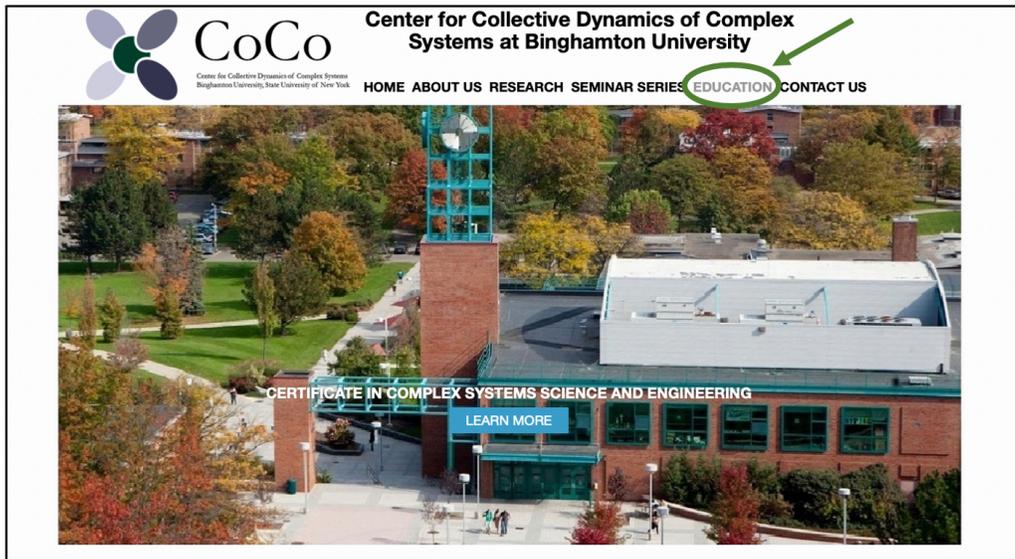
How to Find NetSciDraw on the Web

⇒ Enter <http://coco.binghamton.edu/netscidraw> into your web browser URL bar.

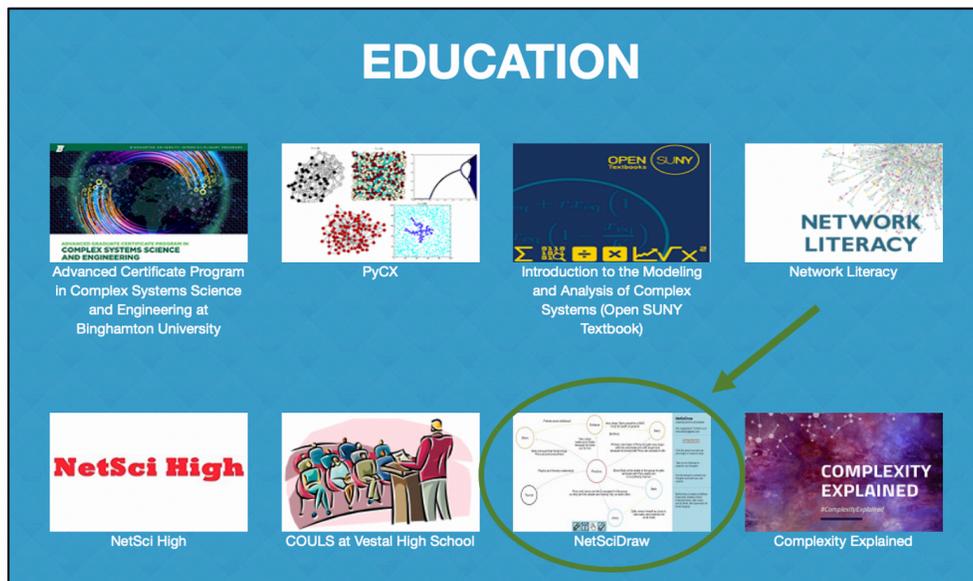


OR

⇒ Enter <http://coco.binghamton.edu> into your web browser URL bar.



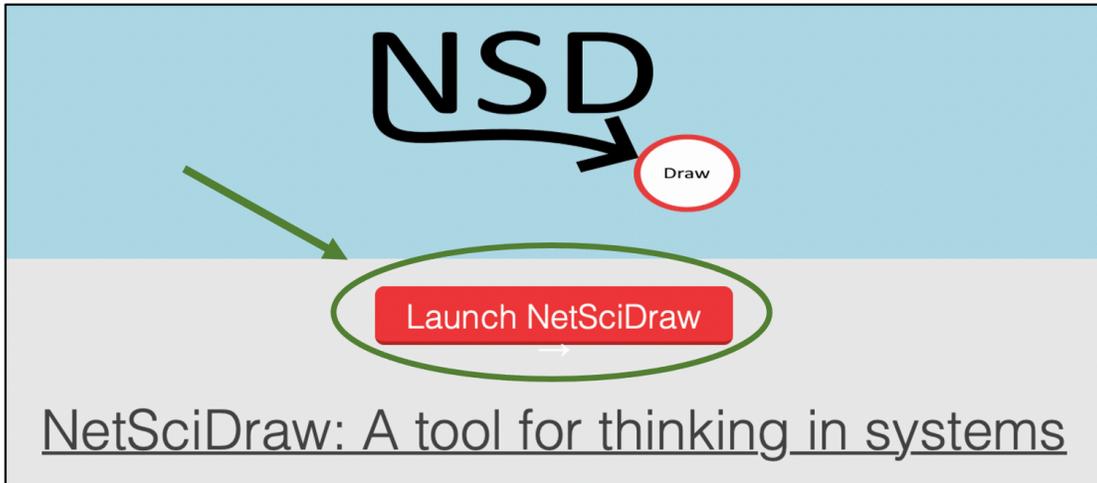
⇒ Select EDUCATION at the top of the web page.



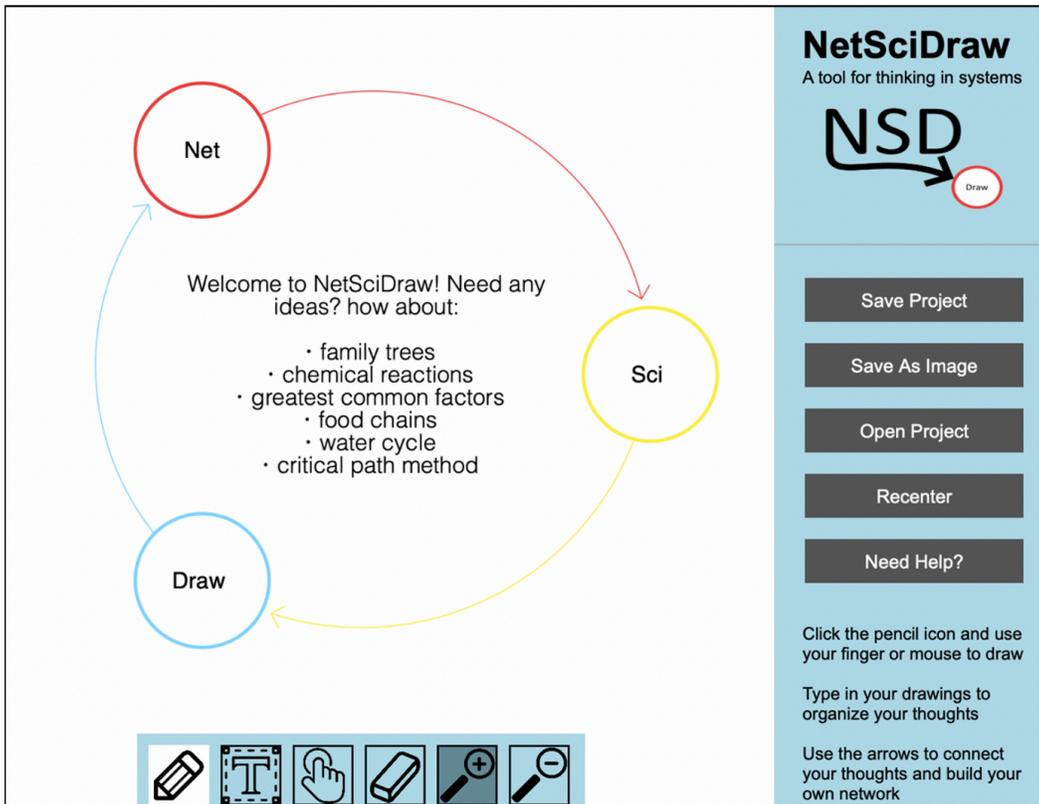
⇒ Select NetSciDraw.

How to Launch the NetSciDraw Application

⇒ Select Launch NetSciDraw.



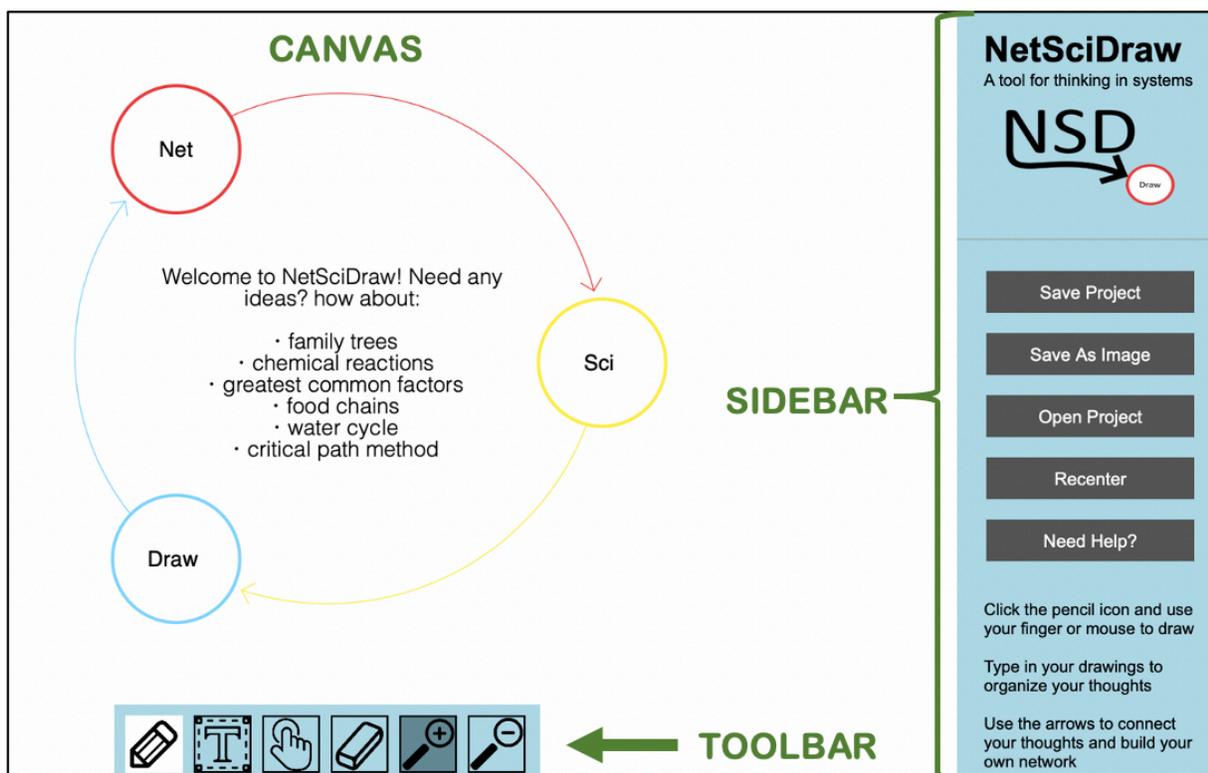
Once the application has been launched, you will see the following:



A Closer Look at NetSciDraw's Opening Screen

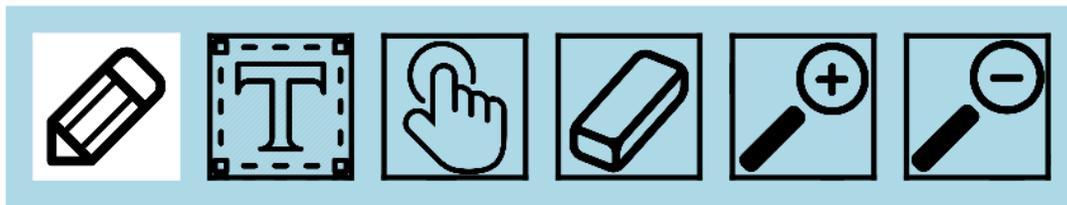
Upon launching the application, you will see:

- * The Canvas (displaying an example network)
- * The Toolbar (at the bottom of the canvas)
- * The Sidebar (to the right of the canvas)



A Closer Look at NetSciDraw's Toolbar

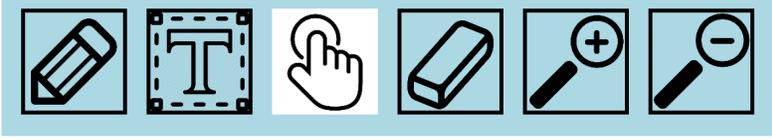
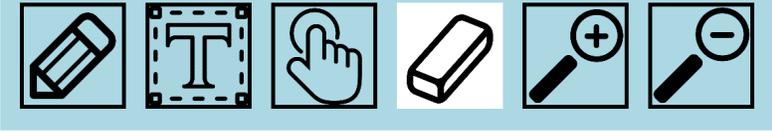
The NetSciDraw Toolbar options remains the same as you create on the canvas.



The toolbar consists of six functions:

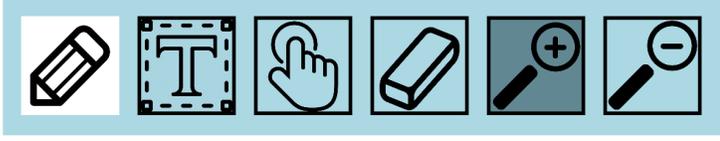
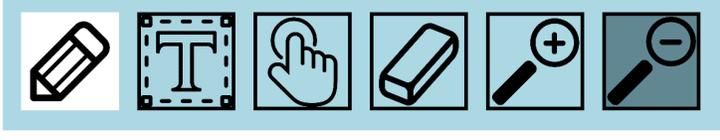
Function	Keyboard Shortcut	Option on Toolbar	Cursor Icon
Pencil	N		
Text	T		
Move	V		
Eraser	E		
Zoom In	-		-
Zoom Out	-		-

When you have selected either the Pencil, Text, Move, or Eraser function, the selected function turns white on the toolbar:

Selected Function	Toolbar
Pencil Selected	
Text Selected	
Move Selected	
Eraser Selected	

When you have reached maximum zoom, the Zoom In function turns gray.

When you have reached minimum zoom, the Zoom Out function turns gray.

Zoom Reached	Toolbar
Maximum Zoom Reached	
Minimum Zoom Reached	

A Closer Look at NetSciDraw's Sidebar

The NetSciDraw Sidebar options differ based on the network element you have selected.

When you first open the NetSciDraw application OR when you select a blank portion of the canvas, you will see the following five sidebar options:

- [Save Project](#)
- [Save As Image](#)
- [Open Project](#)
- [Recenter](#)
- [Need Help?](#)

The screenshot displays the NetSciDraw application interface. On the left, a central canvas features three interconnected nodes: 'Net' (red circle), 'Sci' (yellow circle), and 'Draw' (blue circle), connected by curved arrows. A welcome message is centered on the canvas, listing example ideas: family trees, chemical reactions, greatest common factors, food chains, water cycle, and critical path method. At the bottom of the canvas is a toolbar with icons for drawing, text, selection, erasing, and zooming. On the right, a sidebar contains the NetSciDraw logo and a list of five sidebar options: Save Project, Save As Image, Open Project, Recenter, and Need Help?. Below the sidebar, instructions explain how to use the pencil icon, text input, and arrows to build a network.

NetSciDraw
A tool for thinking in systems

NSD
Draw

Welcome to NetSciDraw! Need any ideas? how about:

- family trees
- chemical reactions
- greatest common factors
- food chains
- water cycle
- critical path method

Save Project

Save As Image

Open Project

Recenter

Need Help?

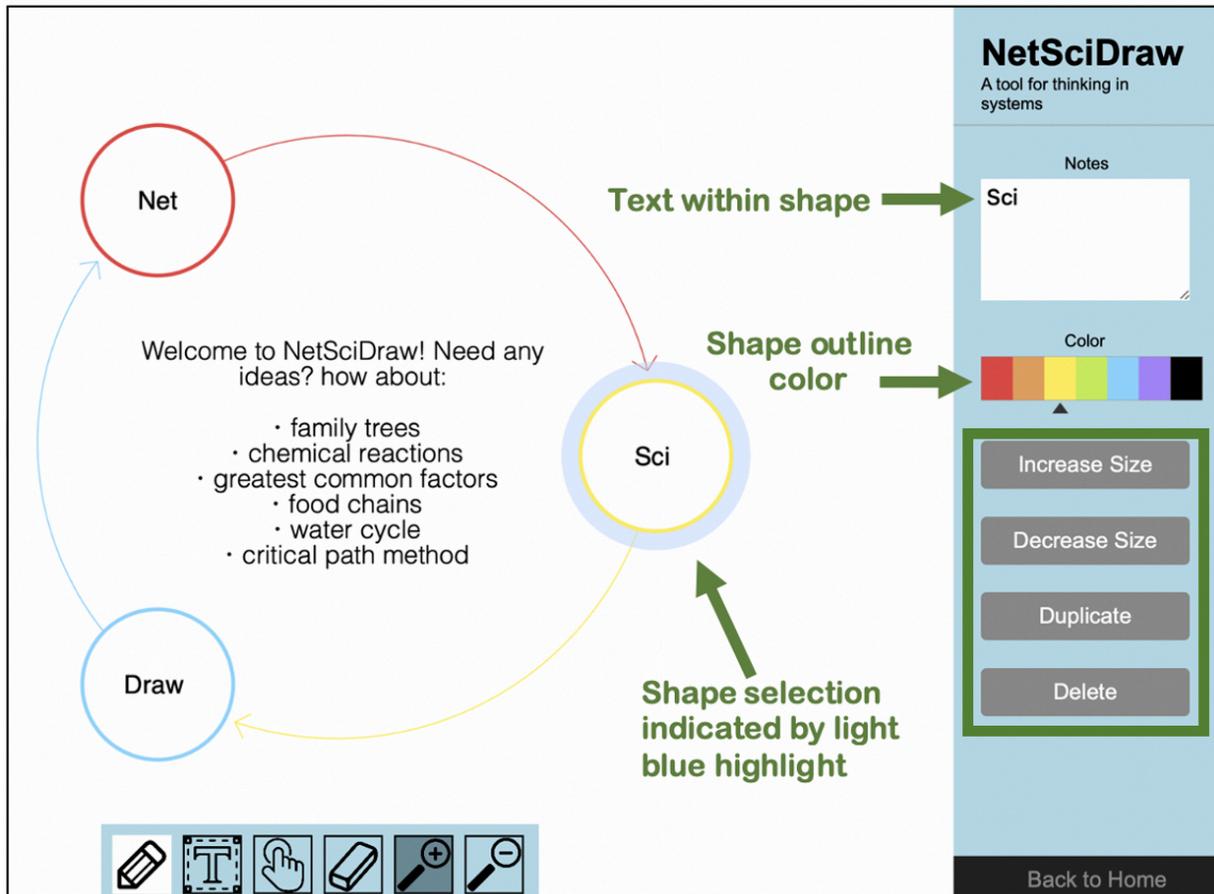
Click the pencil icon and use your finger or mouse to draw

Type in your drawings to organize your thoughts

Use the arrows to connect your thoughts and build your own network

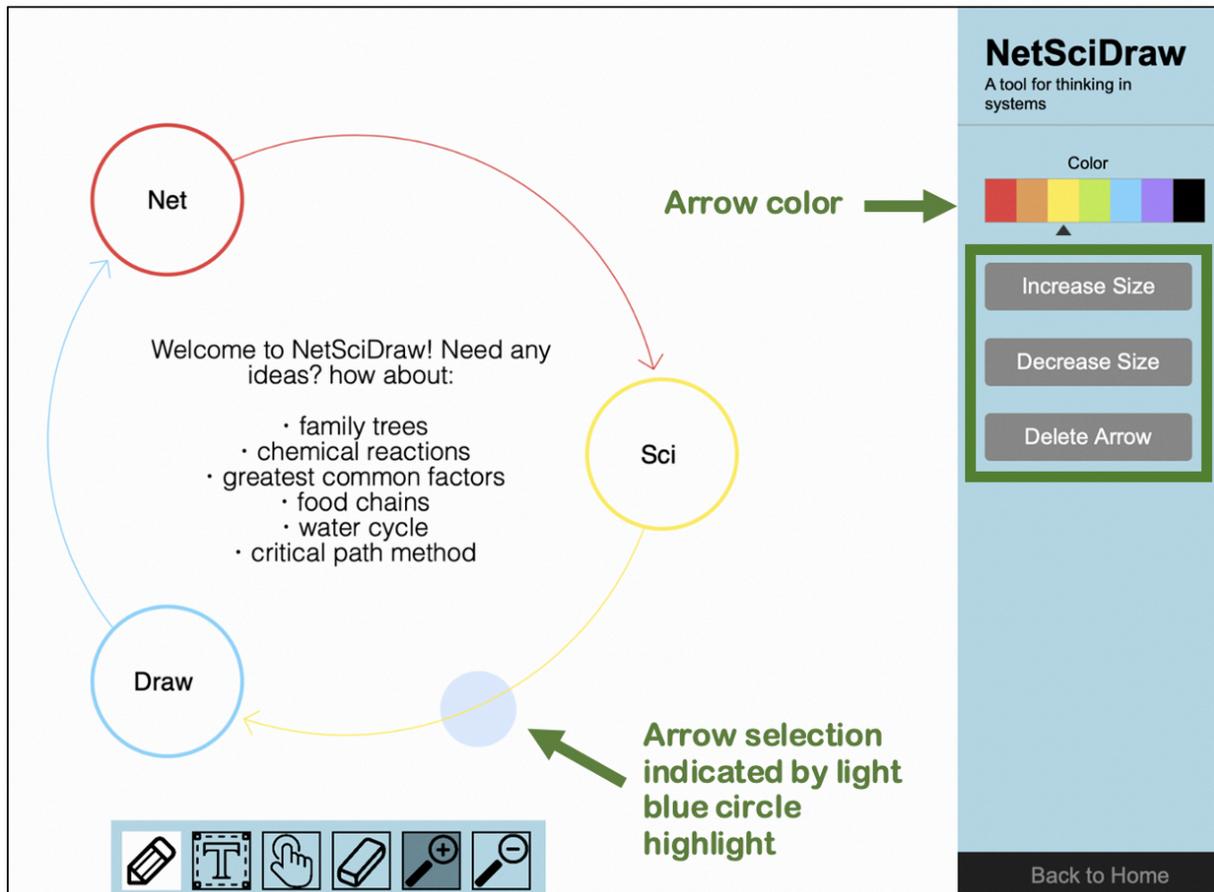
When you select a **shape**, you will see the following sidebar options:

- Notes (Add text within the selected shape)
- Color (Select the color of the shape outline)
- Increase Size
- Decrease Size
- Duplicate
- Delete
- Back to Home



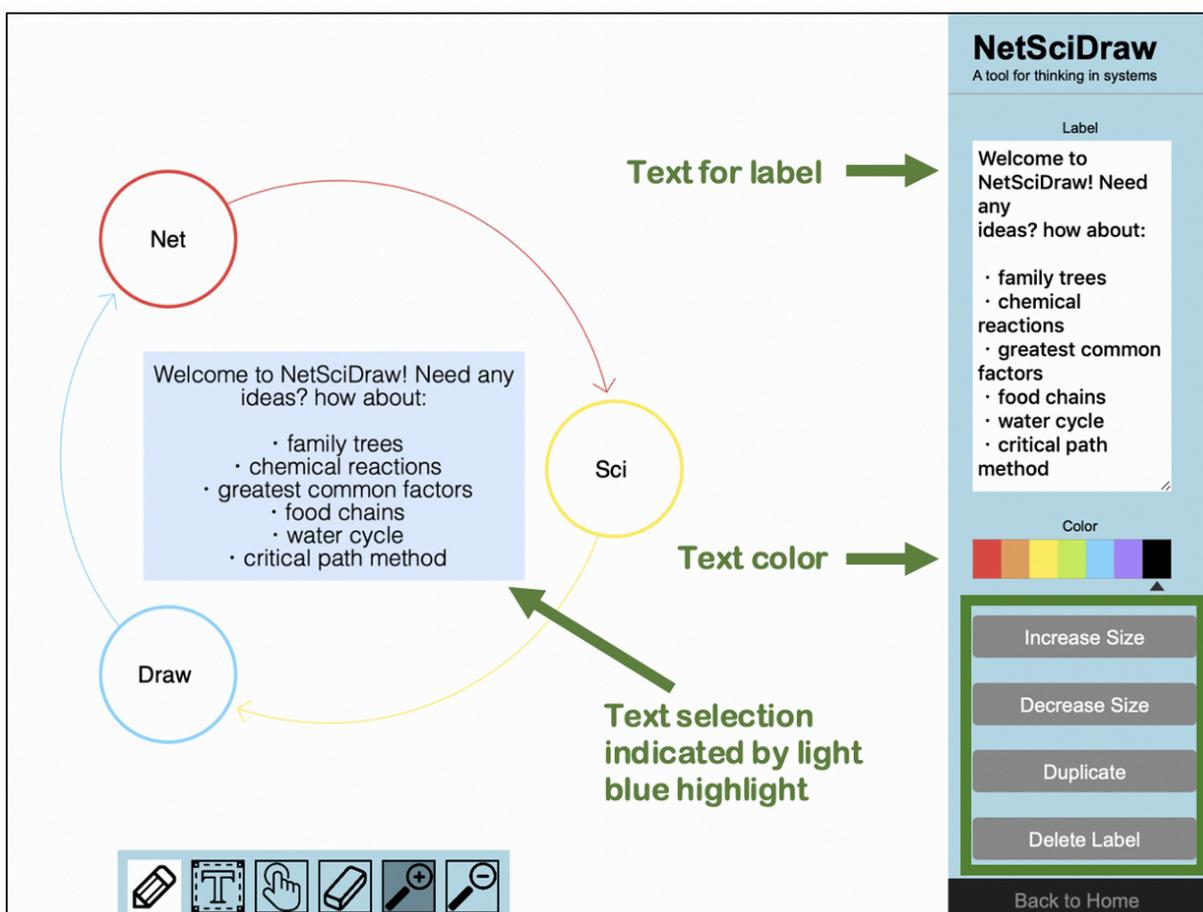
When you select an **arrow**, you will see the following sidebar options:

- Color (Select the color of the arrow)
- [Increase Size](#)
- [Decrease Size](#)
- [Delete Arrow](#)
- [Back to Home](#)



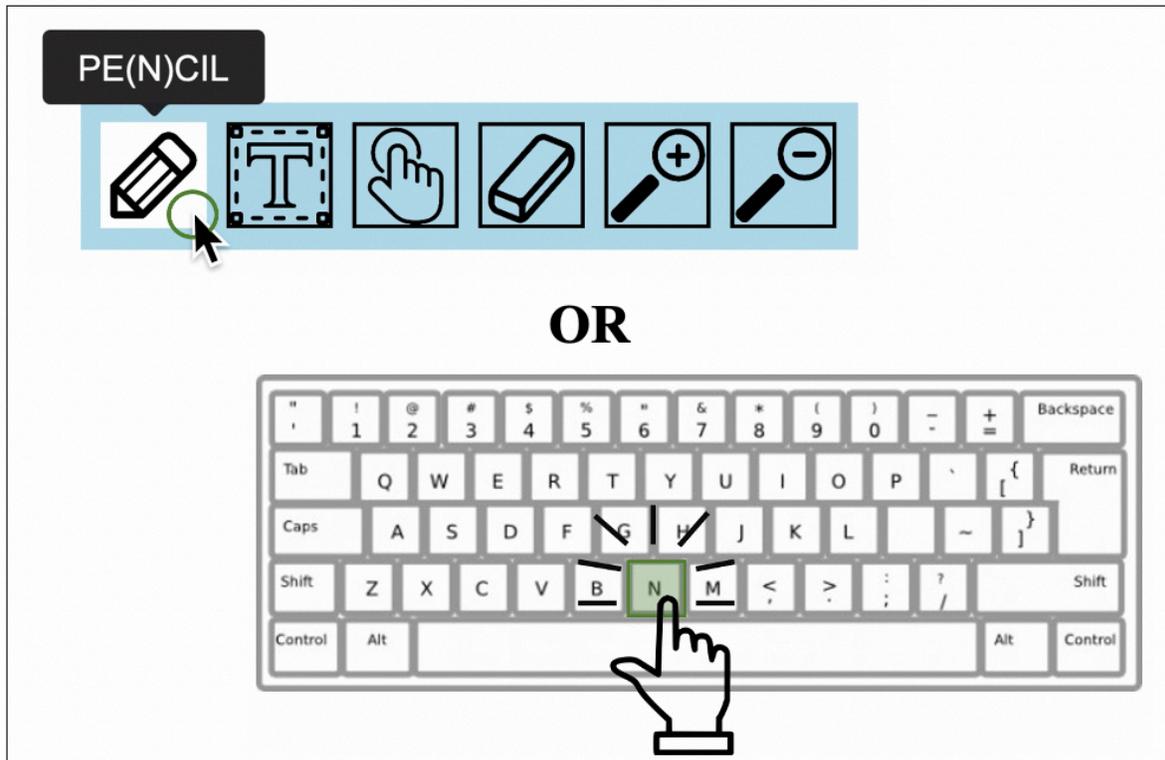
When you select a **label (or text)**, you will see the following sidebar options:

- Label (Add text within the selected label)
- Color (Select the color of the text)
- Increase Size
- Decrease Size
- Duplicate
- Delete Label
- Back to Home

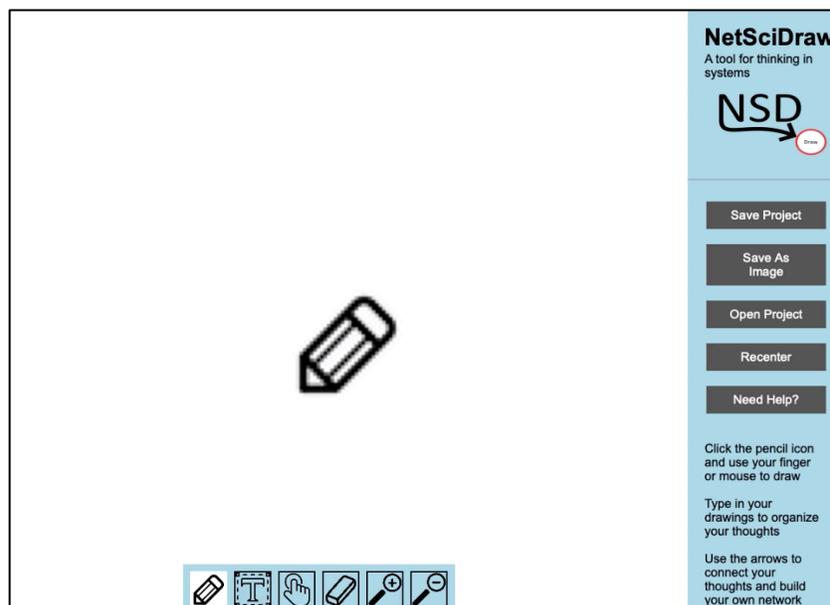


How to Create Shapes

⇒ First, select the Pencil function by clicking on the Pencil on the Toolbar OR by using the “N” key on your device’s keyboard.



Once you have selected the pencil function, the cursor icon will change to a pencil.



⇒ Then,

⇒ If you are using a non-touchscreen device, use your mouse or touchpad to draw your shape on the canvas.

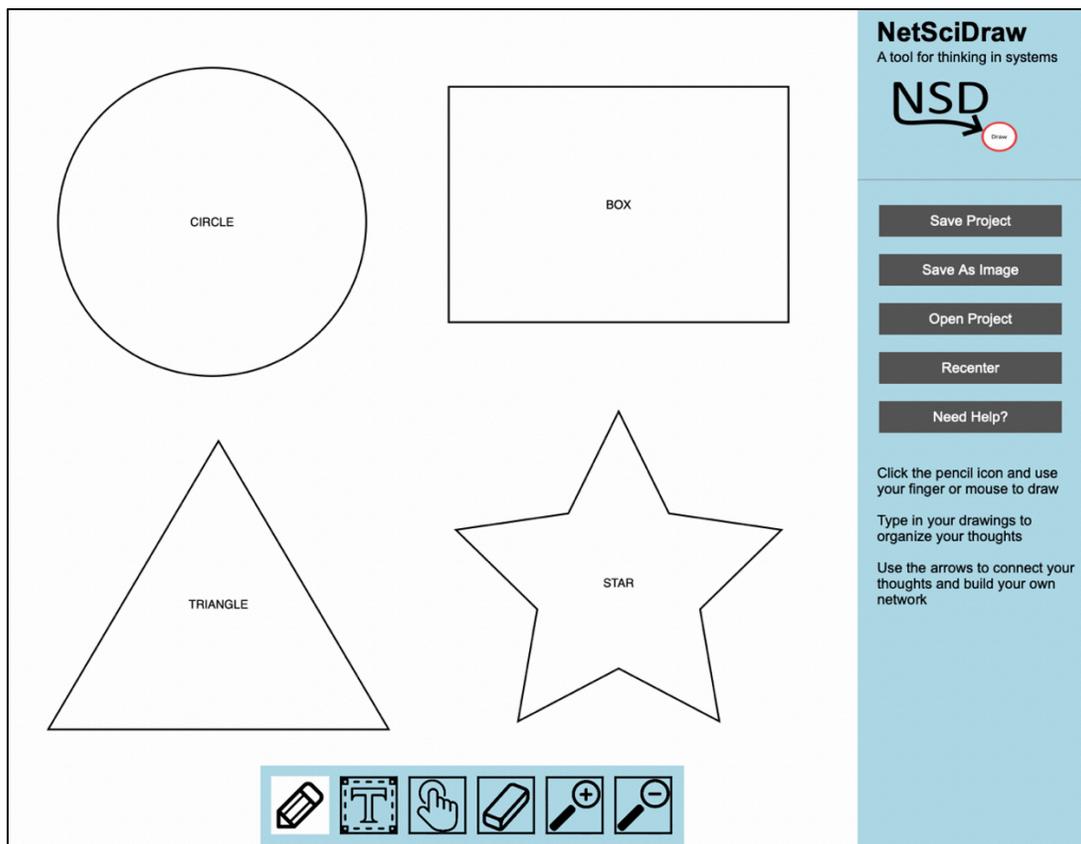
* Hold your left click as you outline your shape.

⇒ If you are using a touchscreen device, use your finger or stylus to draw your shape on the canvas.

You can create four different types of shapes:

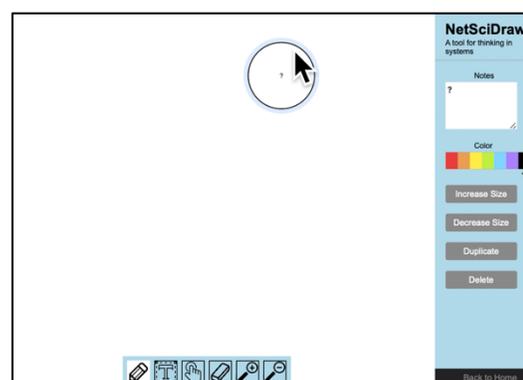
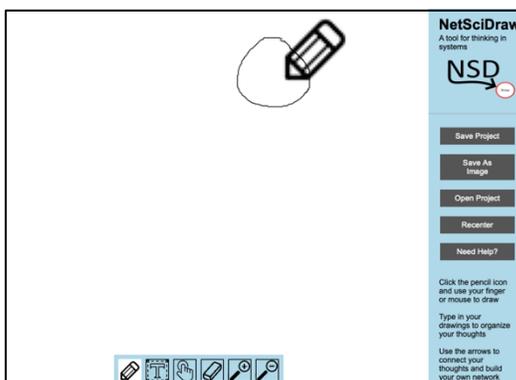
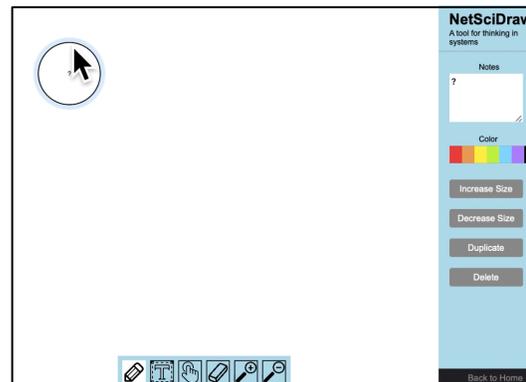
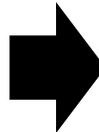
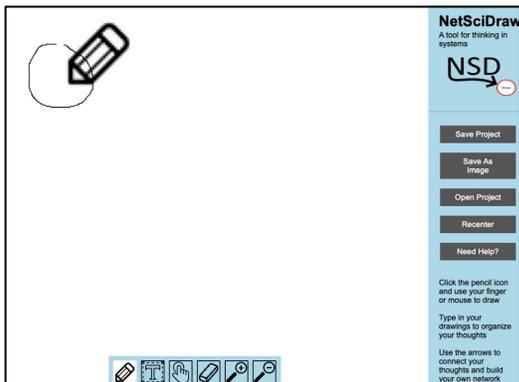
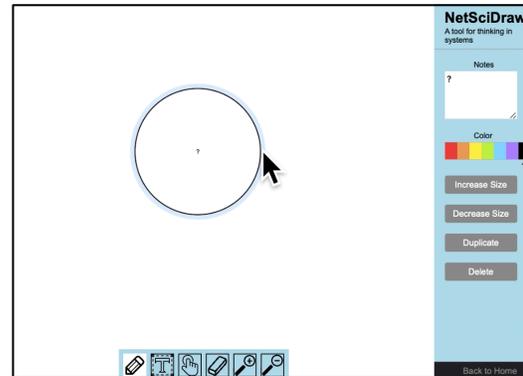
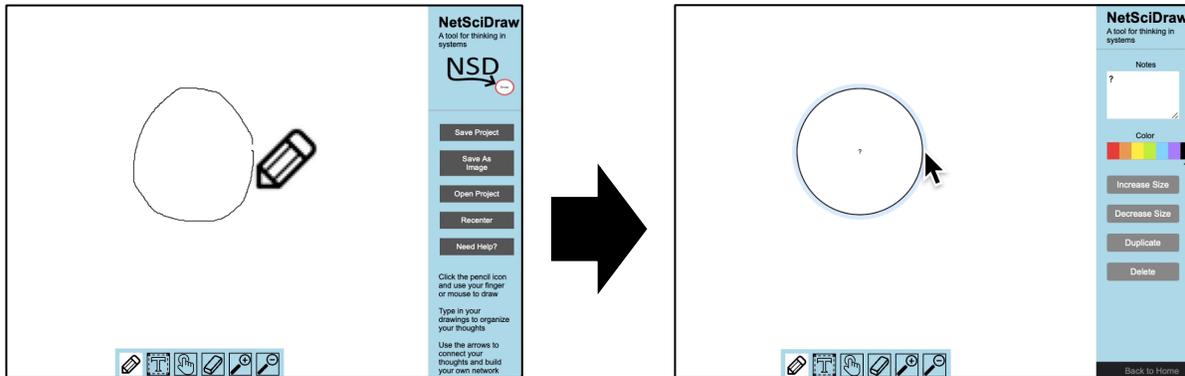
- Circles
- Boxes (Squares and Rectangles)
- Triangles
- Stars

*** **NOTE:** The size of the shape as well as the shape's location on the canvas will reflect your drawing.



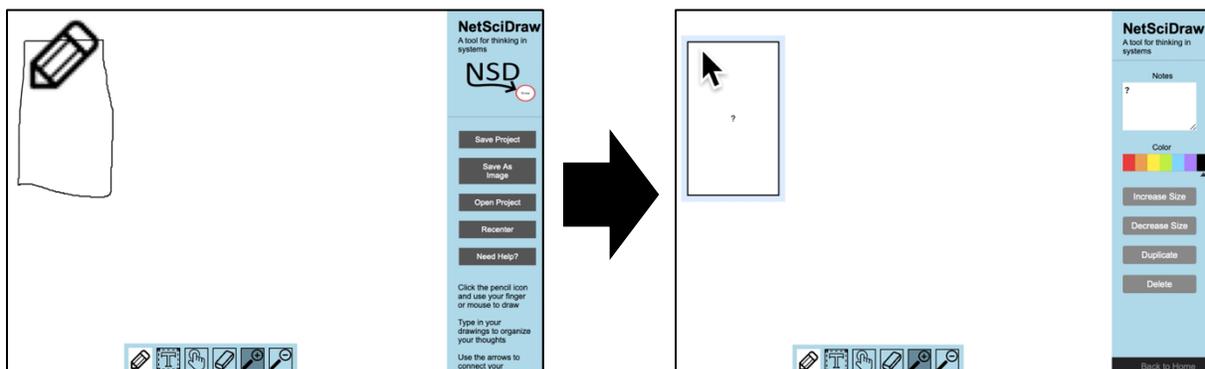
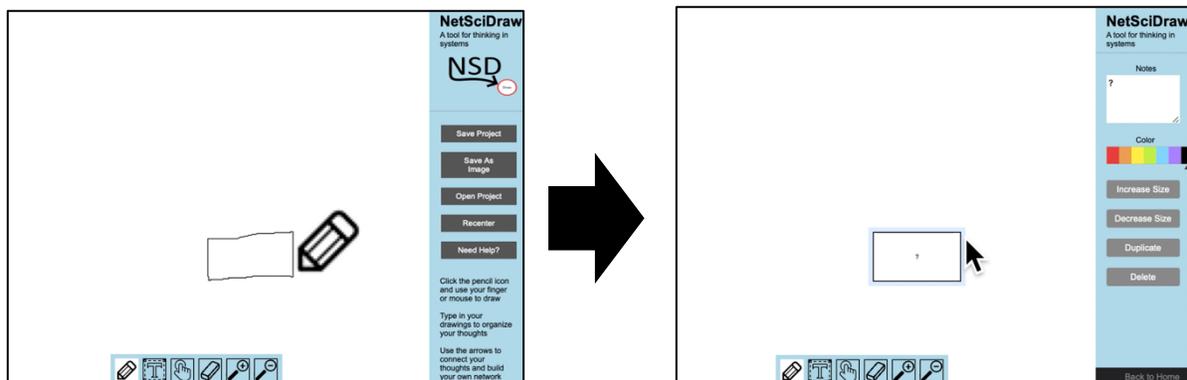
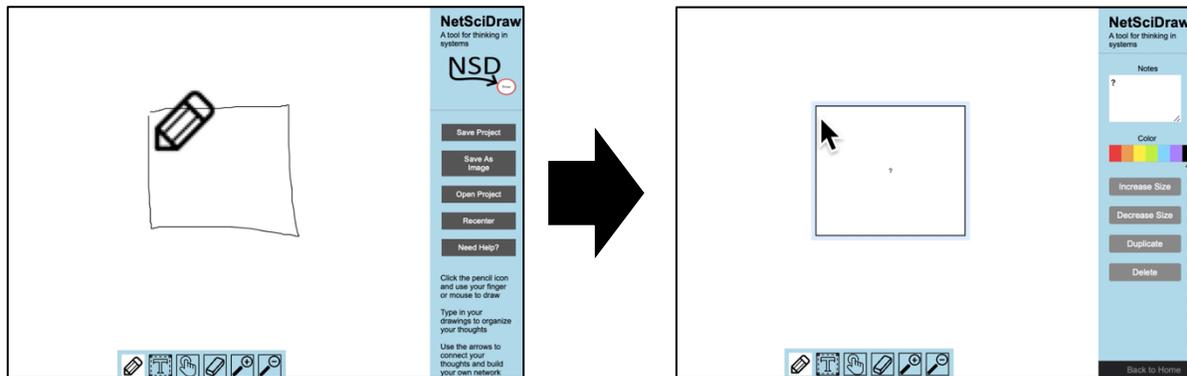
Creating Circles on Non-Touchscreen Devices

- ⇒ Hold down your left click and use your cursor to outline a circle of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your circle, release your left click and a circle will appear on the canvas.



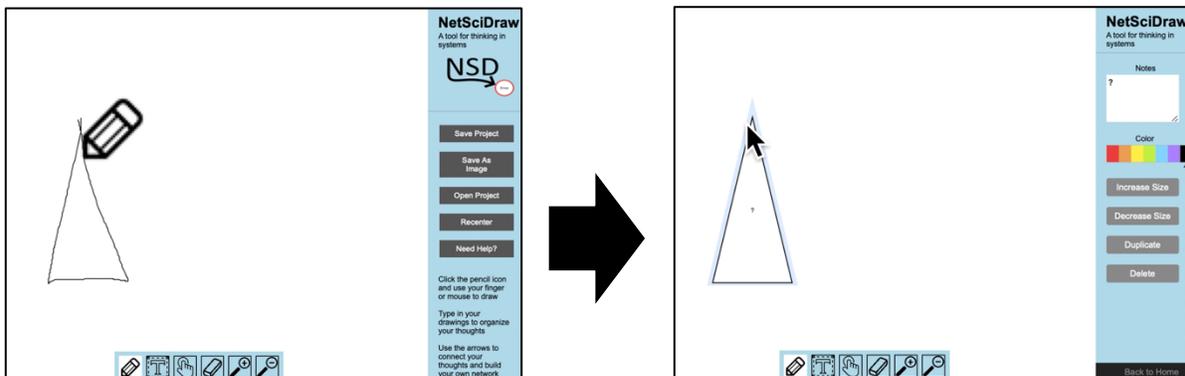
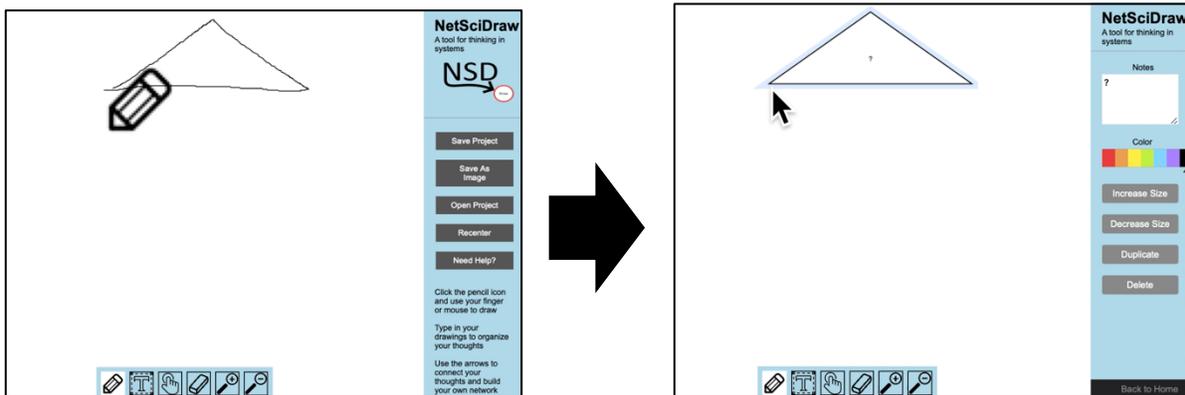
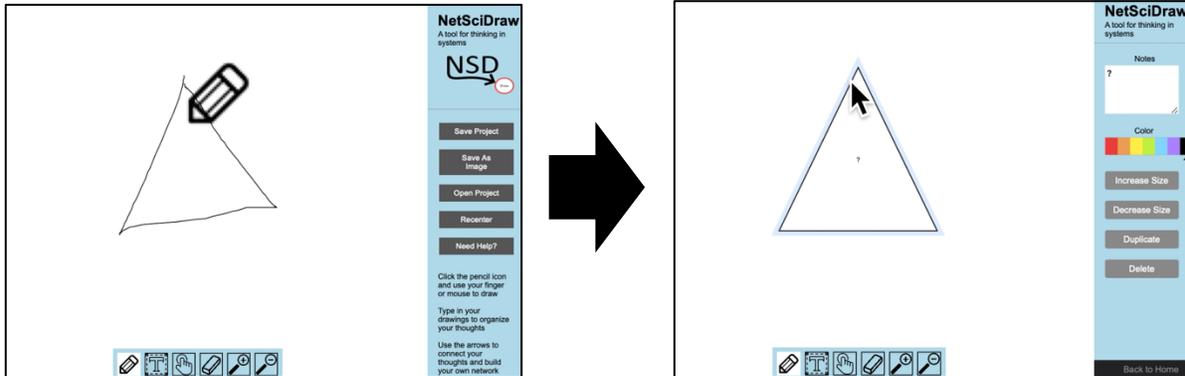
Creating Boxes on Non-Touchscreen Devices

- ⇒ Hold down your left click and use your cursor to outline a square or rectangle of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your box, release your left click and a box will appear on the canvas.



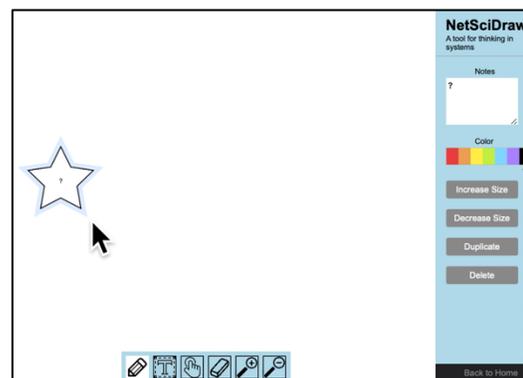
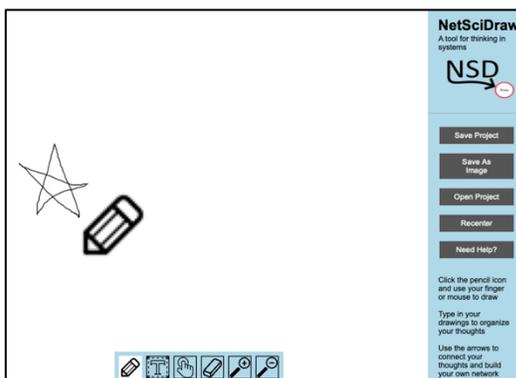
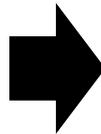
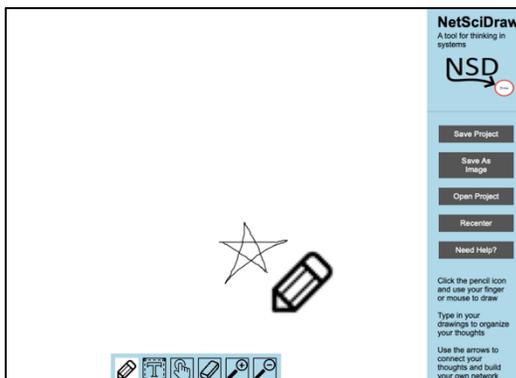
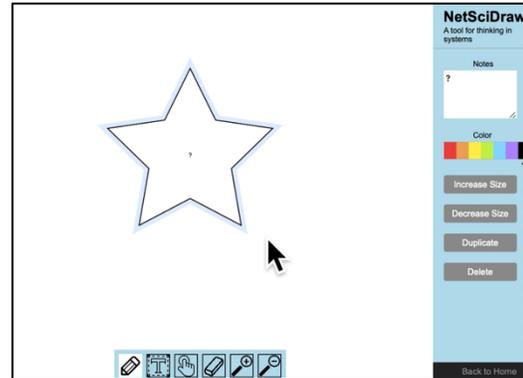
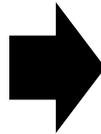
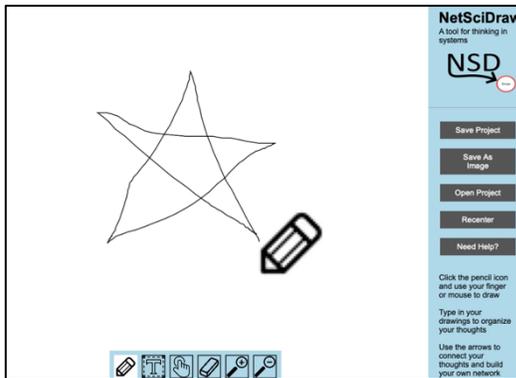
Creating Triangles on Non-Touchscreen Devices

- ⇒ Hold down your left click and use your cursor to outline a triangle of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your triangle, release your left click and a triangle will appear on the canvas.



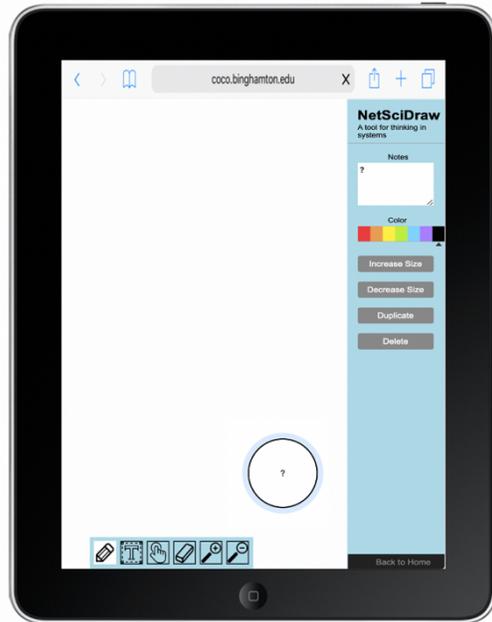
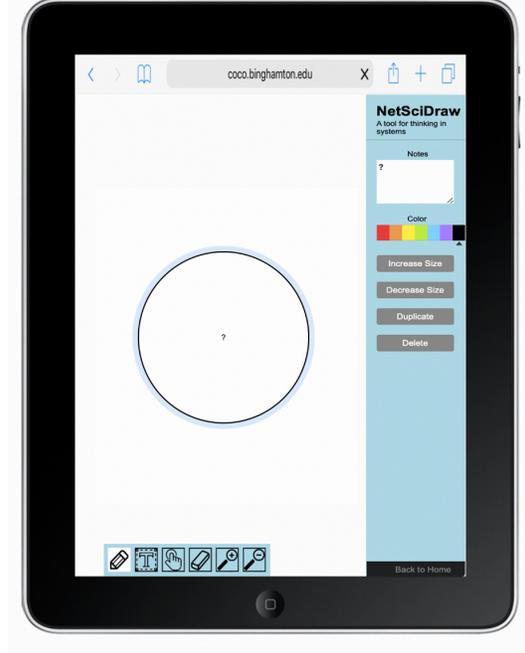
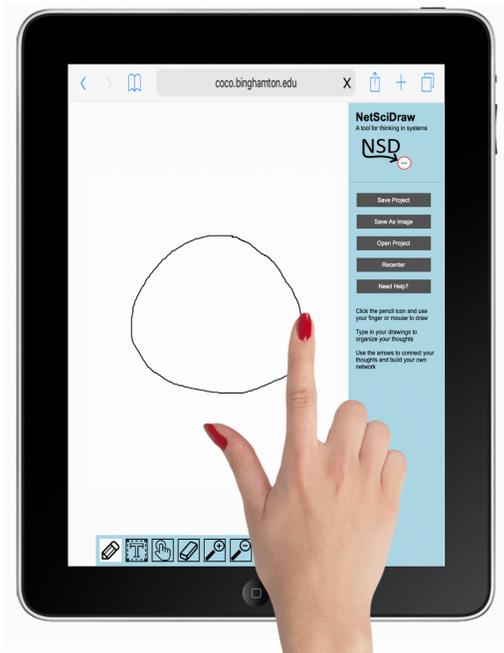
Creating Stars on Non-Touchscreen Devices

- ⇒ Hold down your left click and use your cursor to outline a star of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your star, release your left click and a star will appear on the canvas.



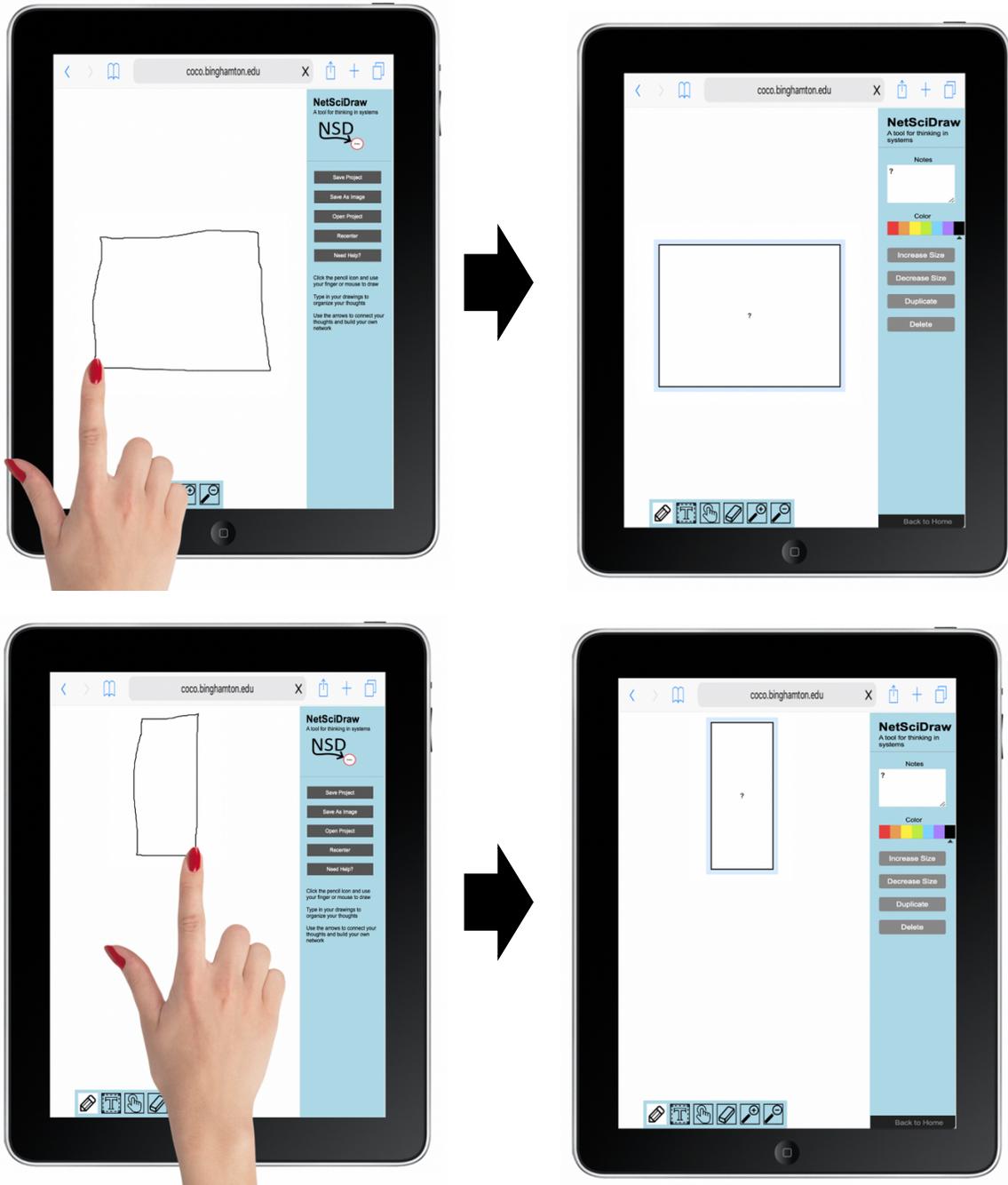
Creating Circles on Touchscreen Devices

- ⇒ Use your finger or stylus to outline a circle of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your circle, remove your finger or stylus from the screen and a circle will appear on the canvas.



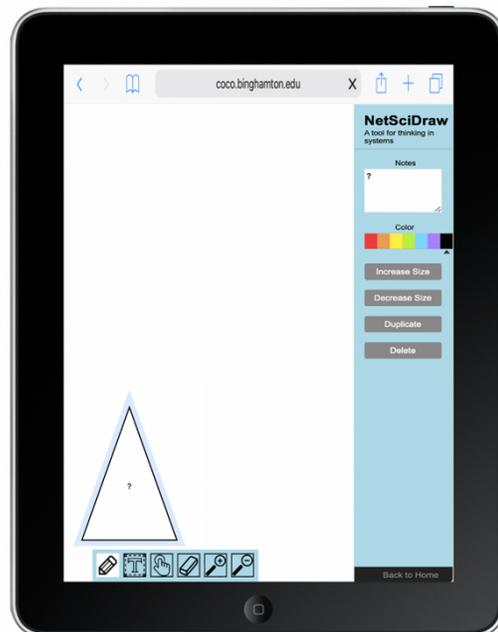
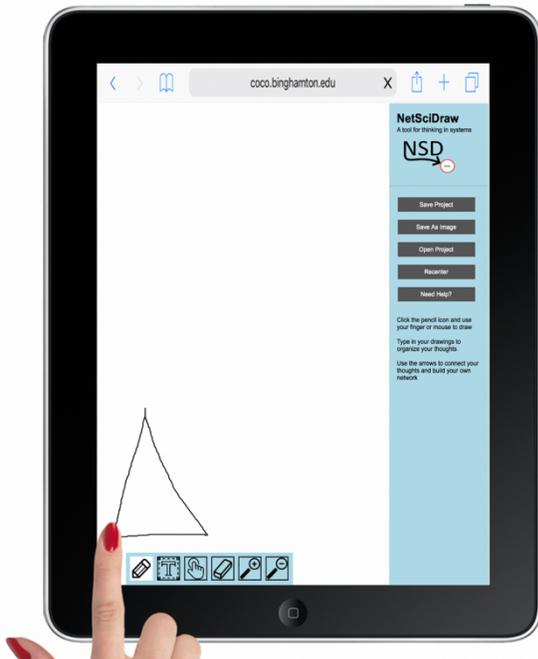
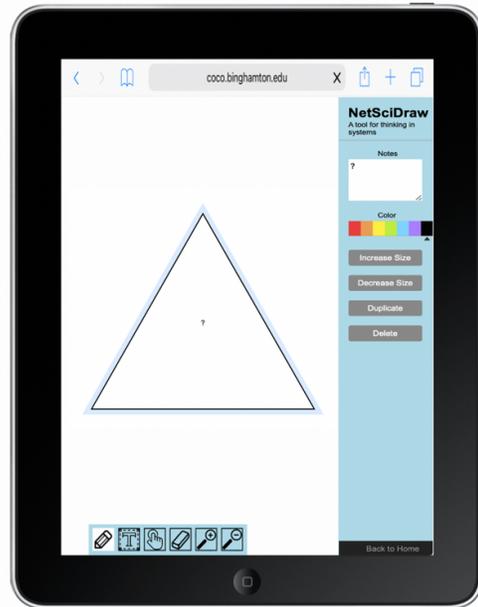
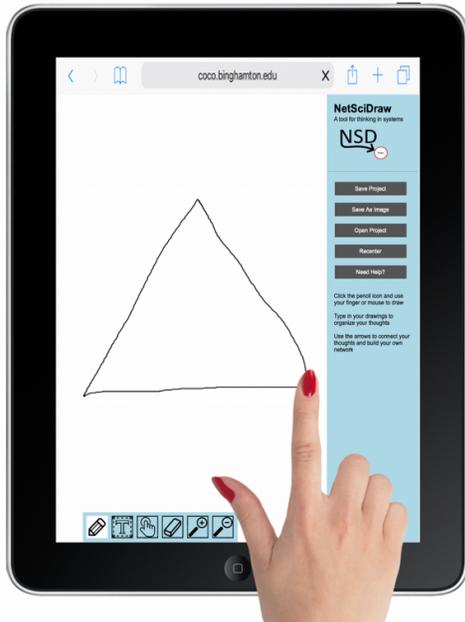
Creating Boxes on Touchscreen Devices

- ⇒ Use your finger or stylus to outline a square or rectangle of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your box, remove your finger or stylus from the screen and a box will appear on the canvas.



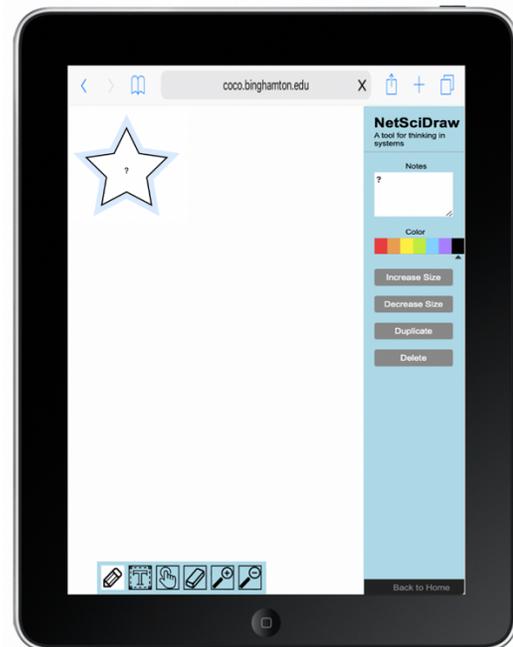
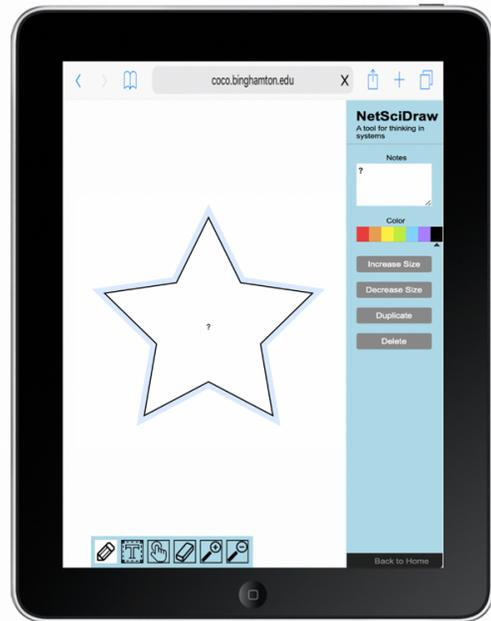
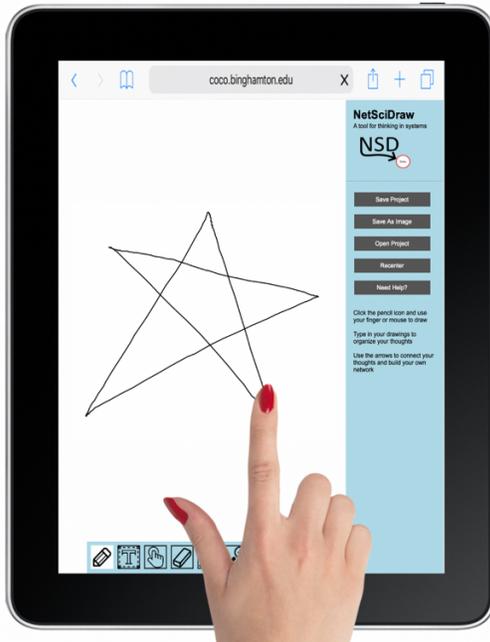
Creating Triangles on Touchscreen Devices

- ⇒ Use your finger or stylus to outline a triangle of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your triangle, remove your finger or stylus from the screen and a triangle will appear on the canvas.



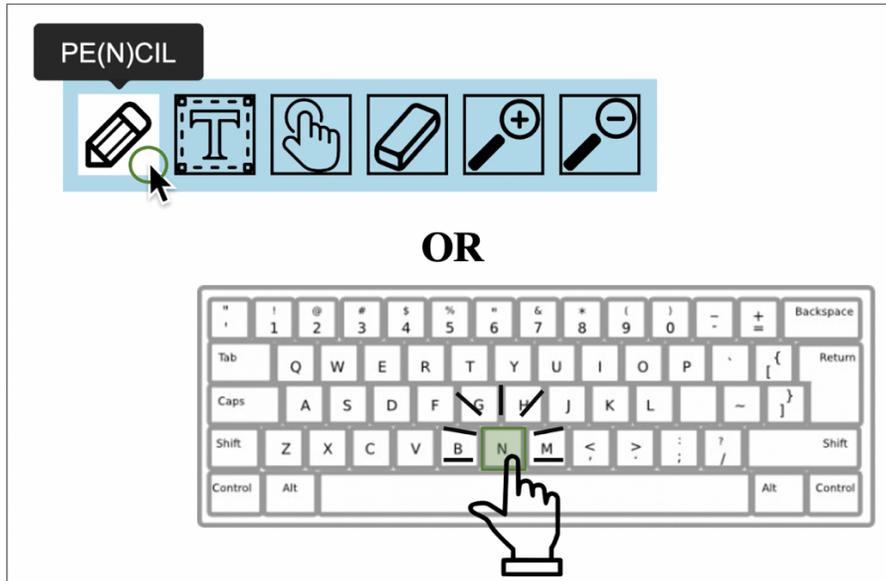
Creating Stars on Touchscreen Devices

- ⇒ Use your finger or stylus to outline a star of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your star, remove your finger or stylus from the screen and a star will appear on the canvas.



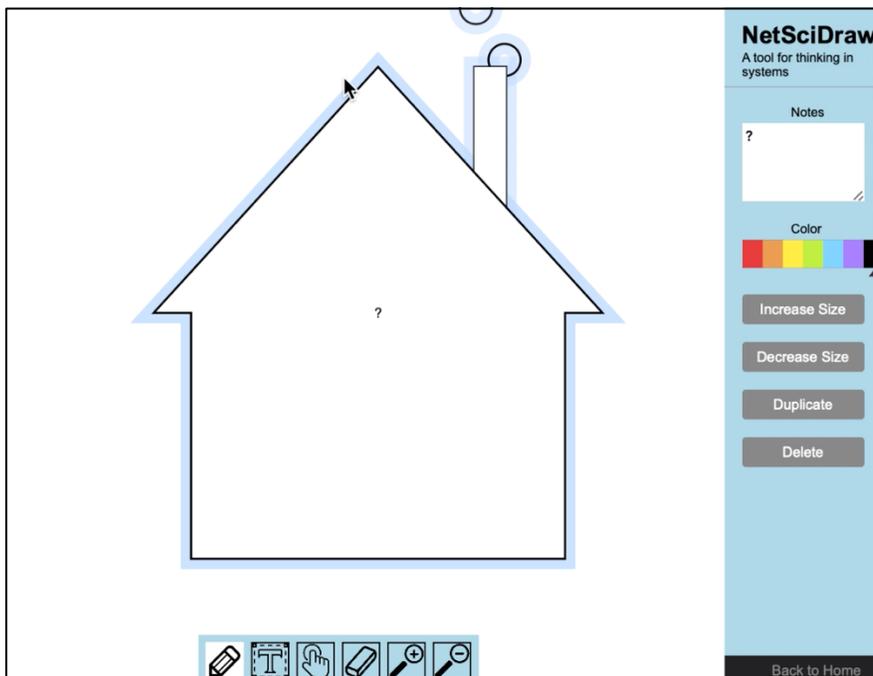
How to Create Houses

⇒ First, select the Pencil function by clicking on the Pencil on the Toolbar OR by using the “N” key on your device’s keyboard.



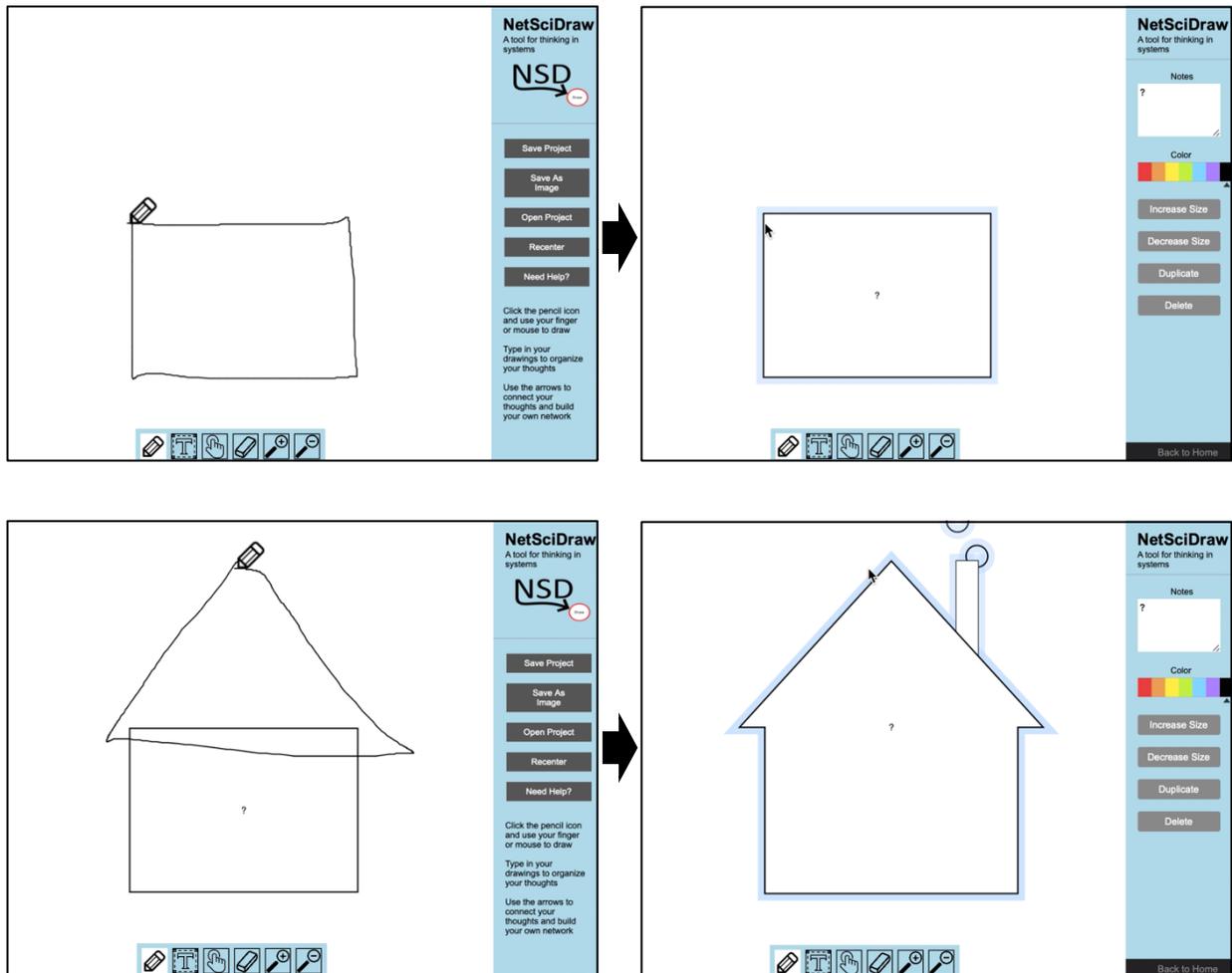
⇒ Then, outline a box of the desired size anywhere you like on the canvas.

⇒ After that, outline a triangle above the box you have just created. A house will appear on the canvas.



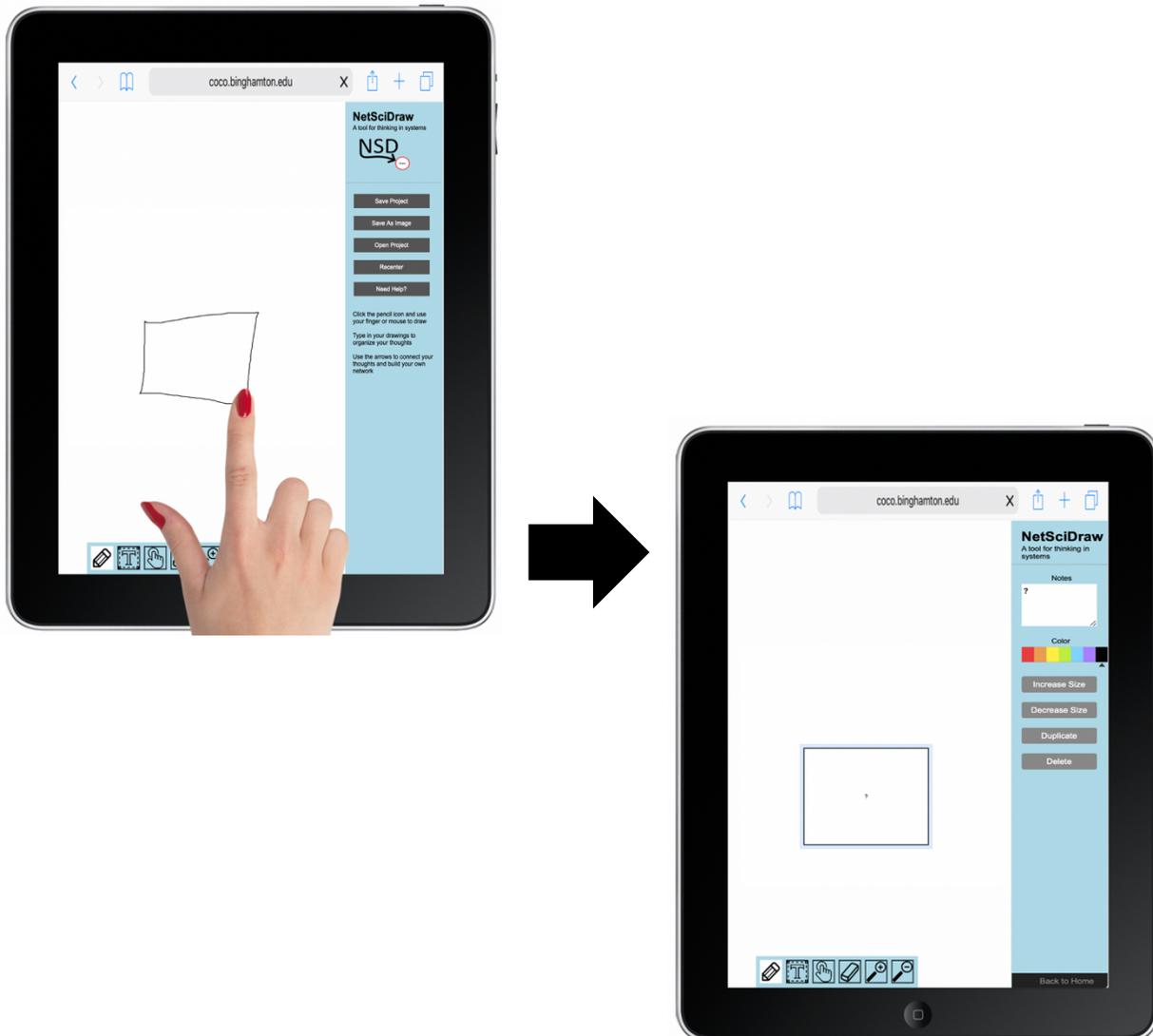
Creating Houses on Non-Touchscreen Devices

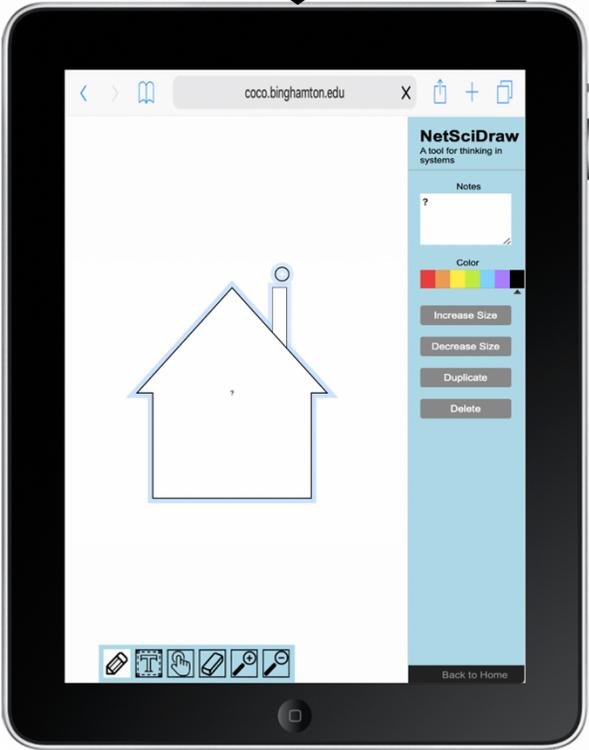
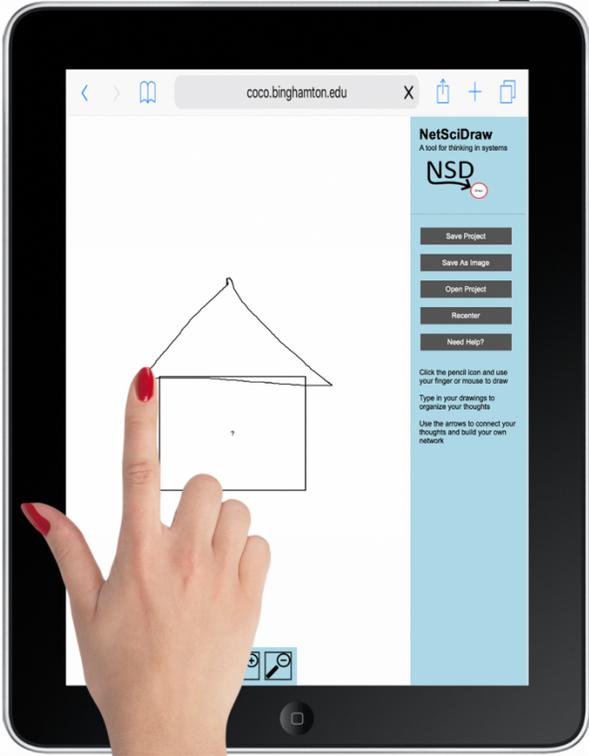
- ⇒ Hold down your left click and use your cursor to outline a square or rectangle of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your box, release your left click and a box will appear on the canvas.
- ⇒ Next, hold down your left click and use your cursor to outline a triangle above the box you have just made.
- ⇒ When you have finished outlining your box, release your left click and a house will appear on the canvas.



Creating Houses on Touchscreen Devices

- ⇒ Use your finger or stylus to outline a square or rectangle of the desired size anywhere you like on the canvas.
- ⇒ When you have finished outlining your box, remove your finger or stylus from the screen and a box will appear on the canvas.
- ⇒ Next, use your finger or stylus to outline a triangle above the box you have just made.
- ⇒ When you have finished outlining your triangle, remove your finger or stylus from the screen and a house will appear on the canvas.

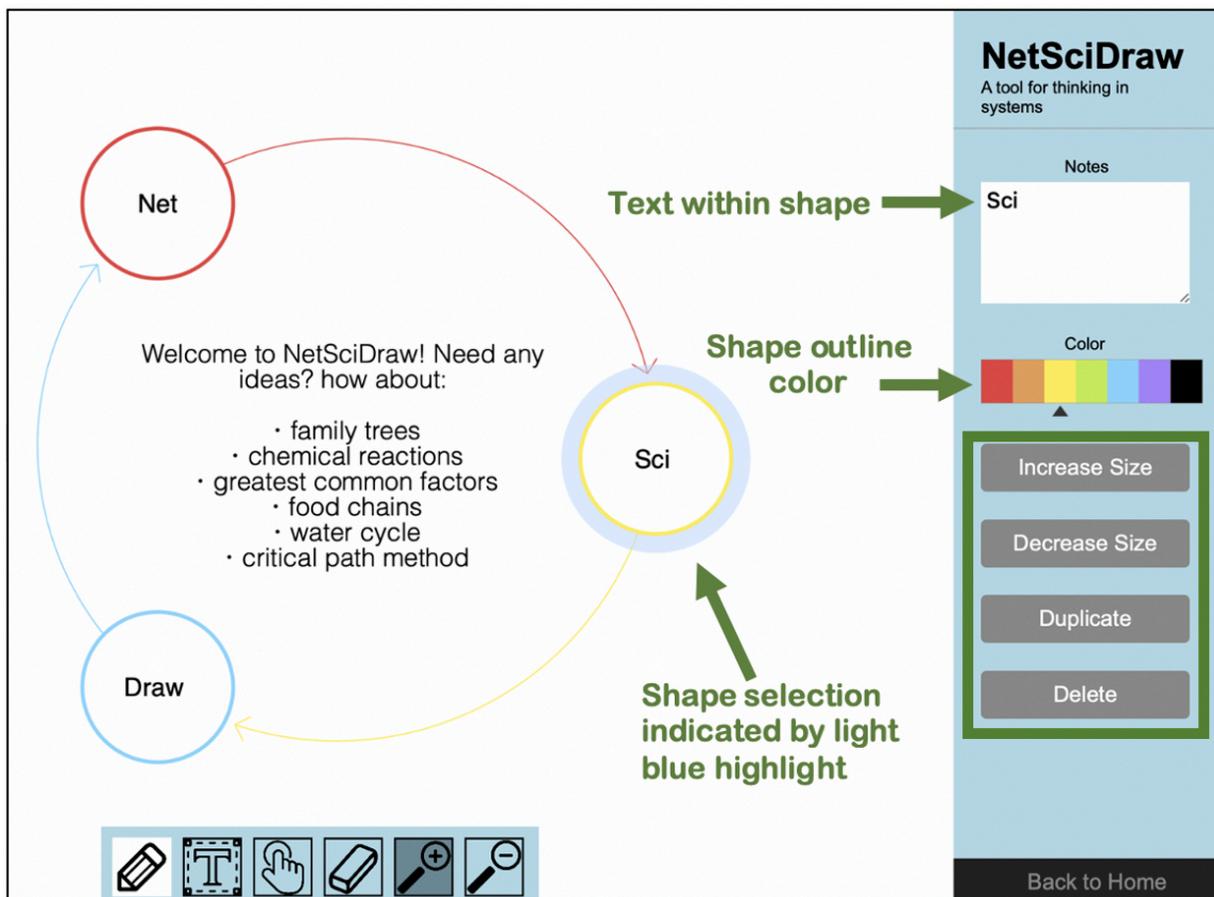




How to Edit Shapes

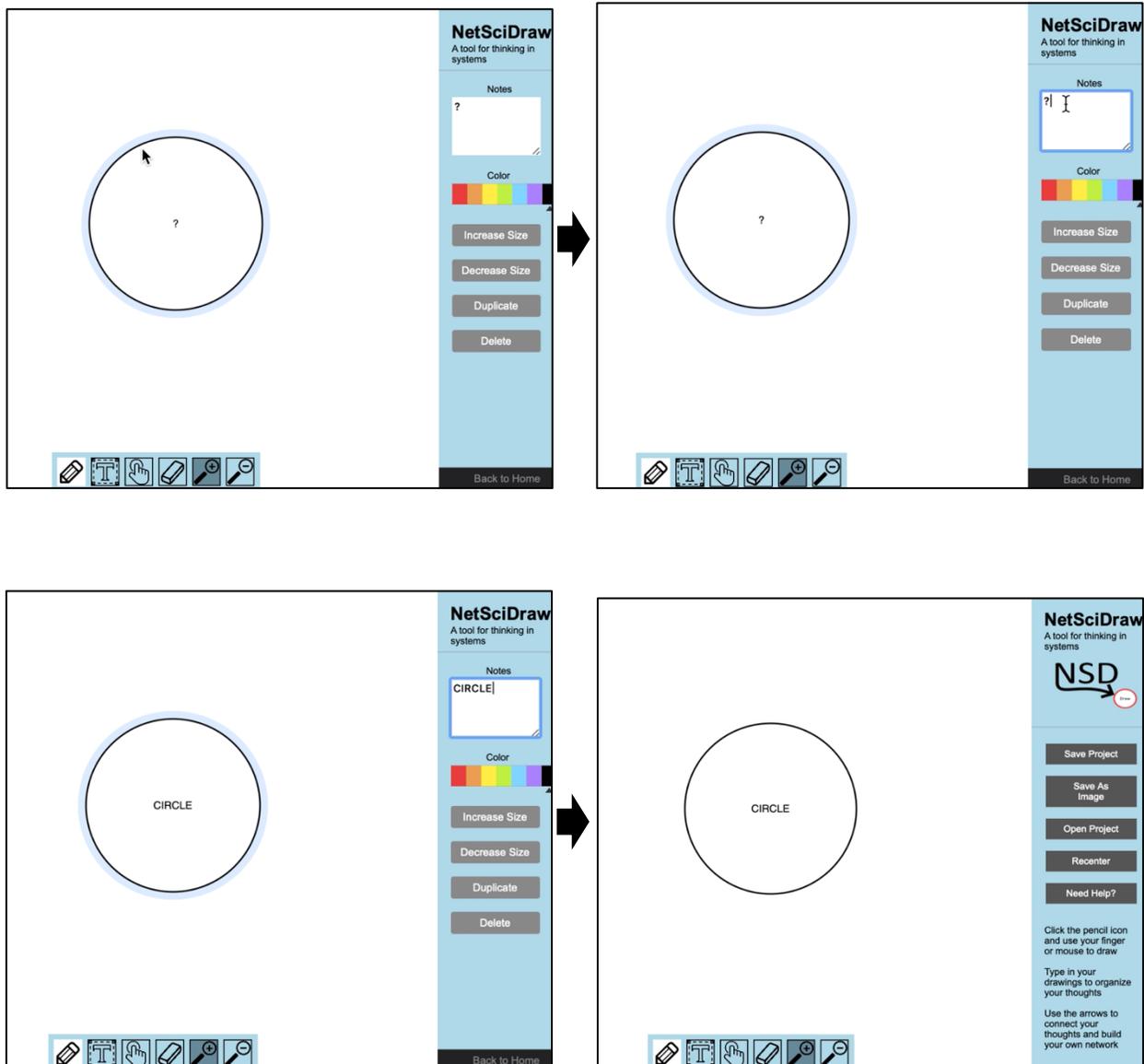
When you select a **shape**, you will see the following sidebar options:

- Notes → You can add text within the selected shape
- Color → You can change the color of the shape's outline
- Increase Size → You can increase the size of the shape
- Decrease Size → You can decrease the size of the shape
- Duplicate → You can duplicate the shape
- Delete → You can delete the shape
- Back to Home → You can go back to the home screen options



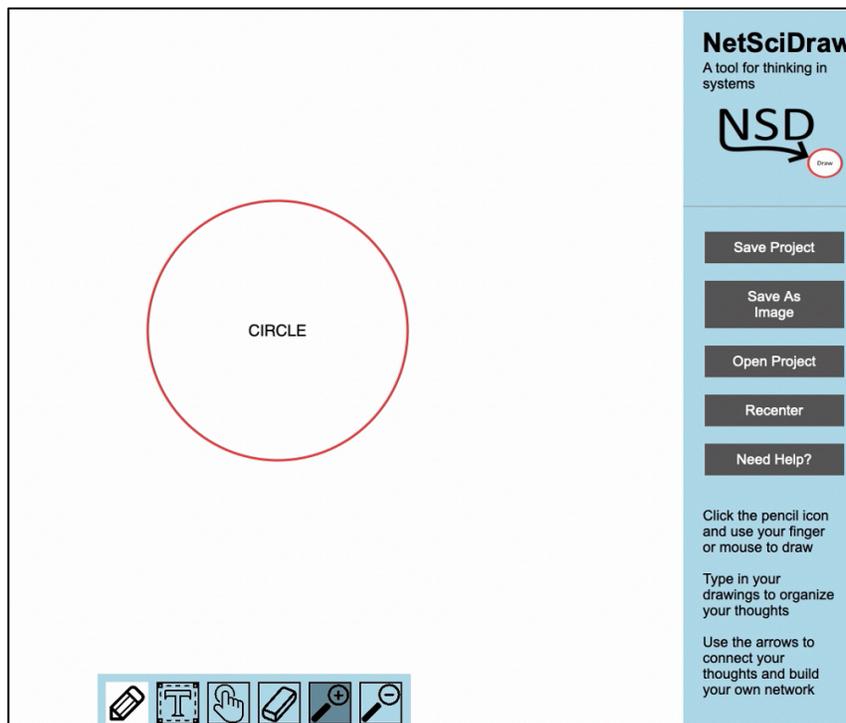
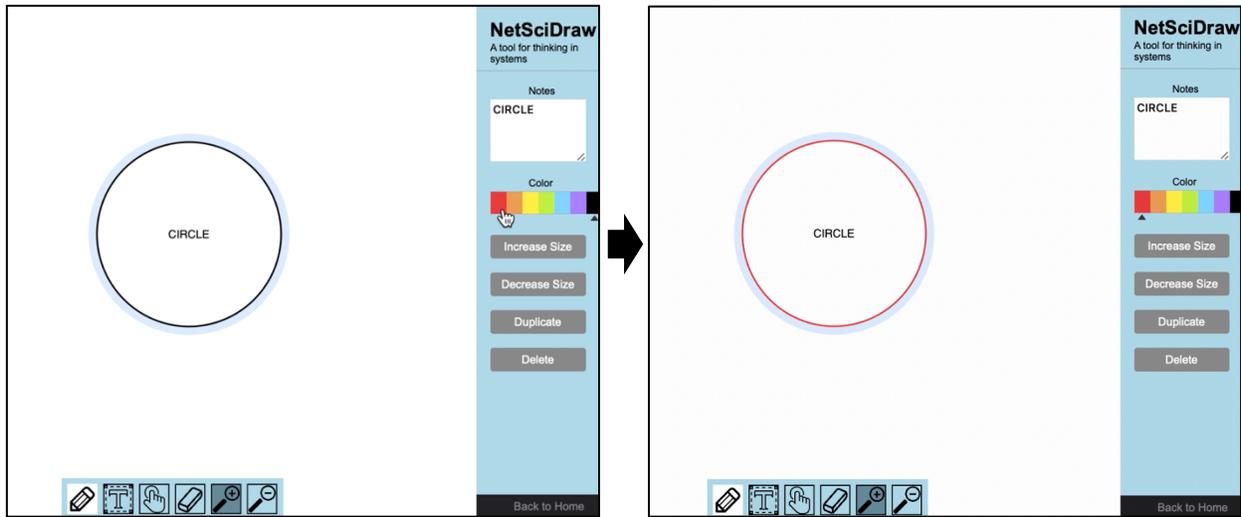
Adding Text Within a Shape

- ⇒ Select the shape you want to add text to. When you have selected a shape, it will become highlighted in light blue.
- ⇒ Then, use your cursor, finger or stylus to click on the notes box in the sidebar. When you have selected the notes box, it will become outlined in blue.
- ⇒ After that, use your device's keyboard to type the text you want to appear in the shape.



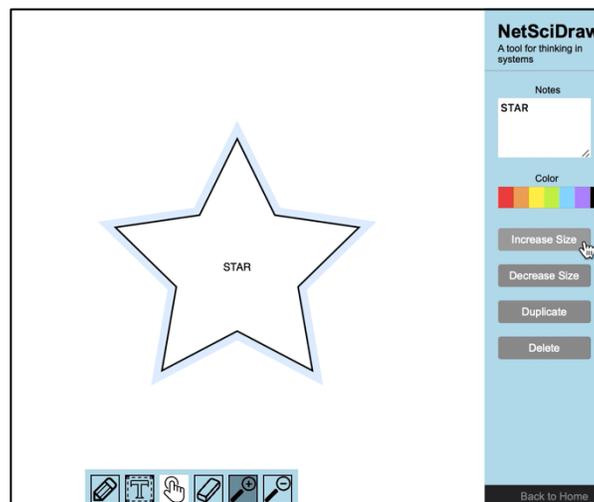
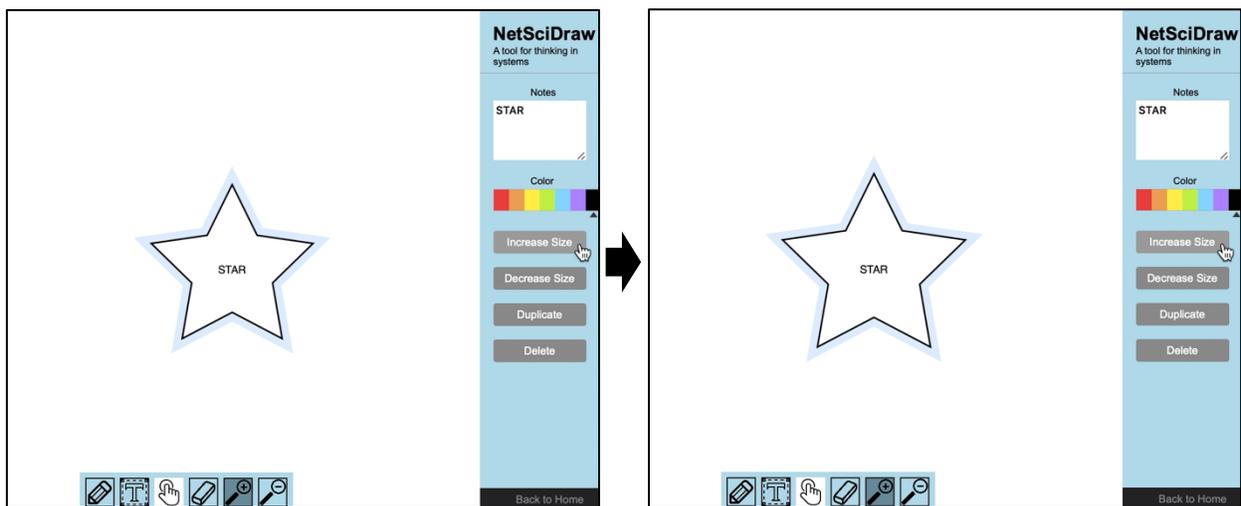
Changing a Shape's Outline Color

- ⇒ Select the shape you want to change. When you have selected a shape, it will become highlighted in light blue.
- ⇒ Next, in the sidebar, select your desired color.



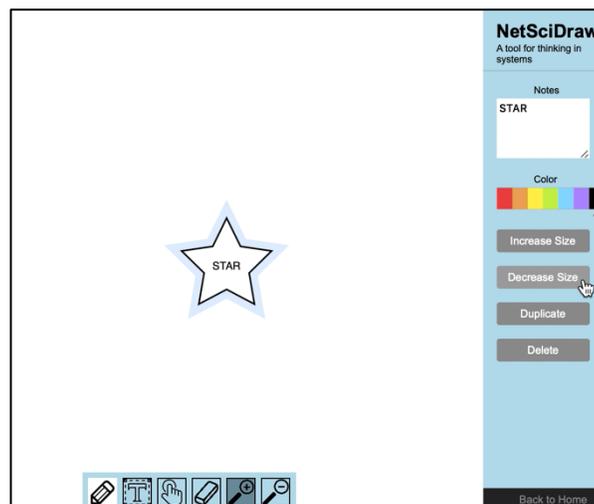
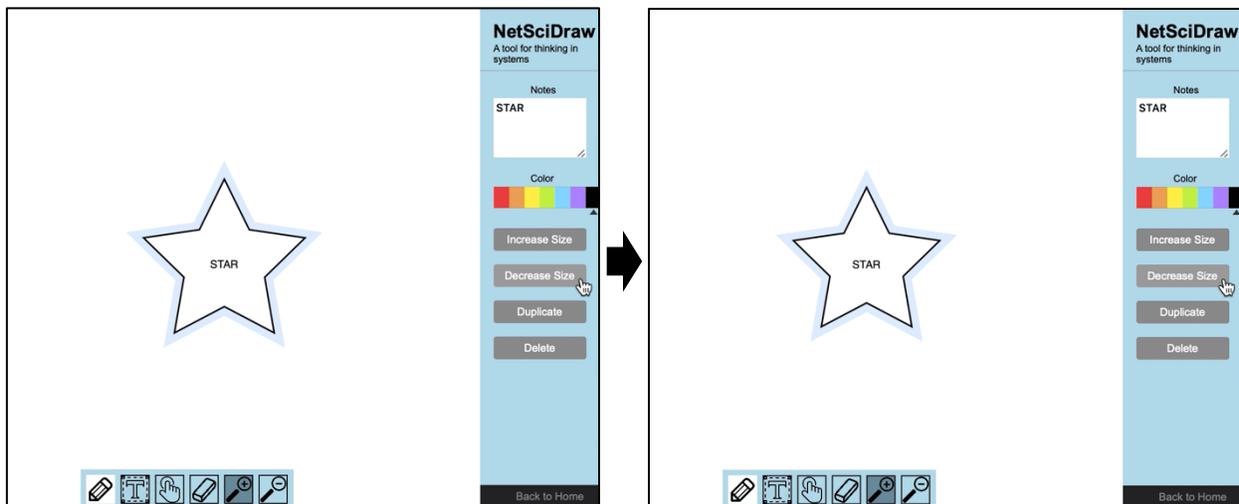
Increasing the Size of a Shape

- ⇒ Select the shape you want to change. When you have selected a shape, it will become highlighted in light blue.
- ⇒ Select Increase Size in the sidebar.
- ⇒ Continue selecting Increase Size in the sidebar until you are satisfied with the size of the shape.



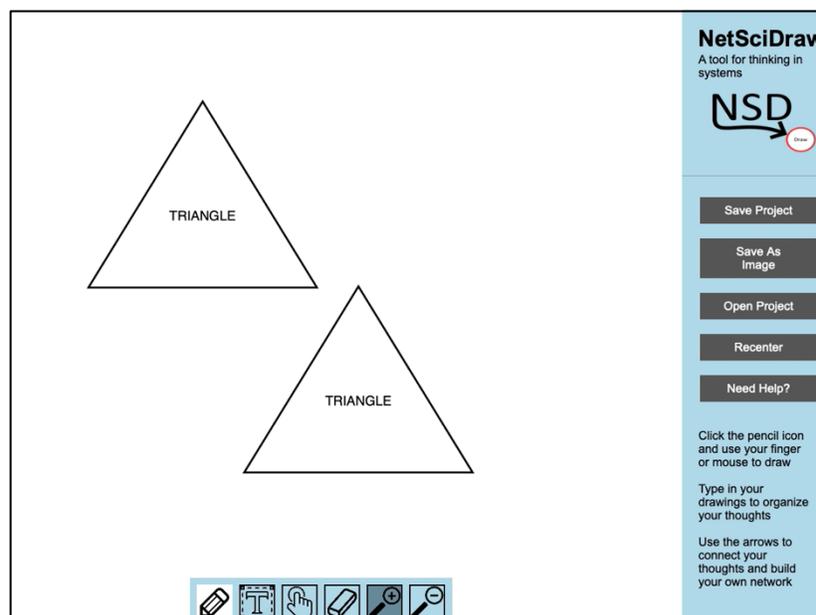
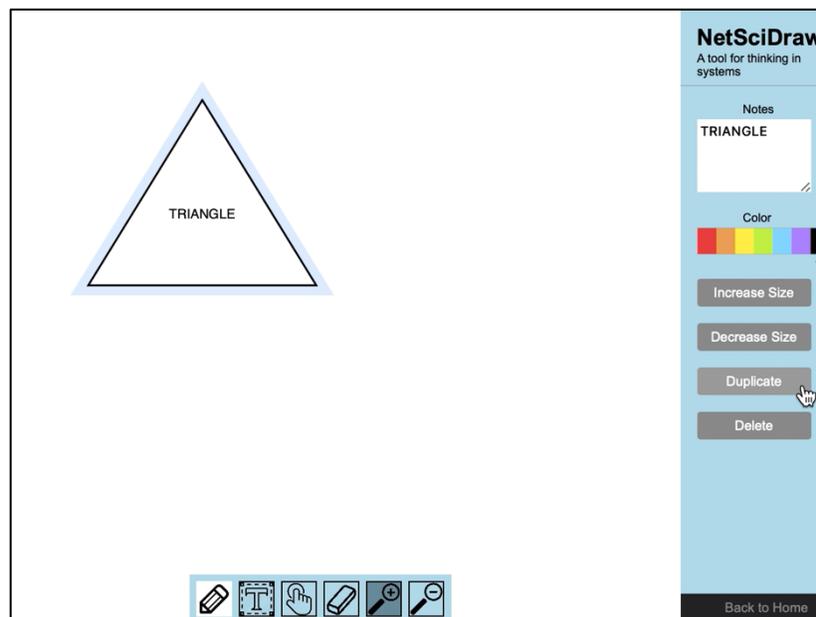
Decreasing the Size of a Shape

- ⇒ Select the shape you want to change. When you have selected a shape, it will become highlighted in light blue.
- ⇒ Select Decrease Size in the sidebar.
- ⇒ Continue selecting Decrease Size in the sidebar until you are satisfied with the size of the shape.



Duplicating a Shape

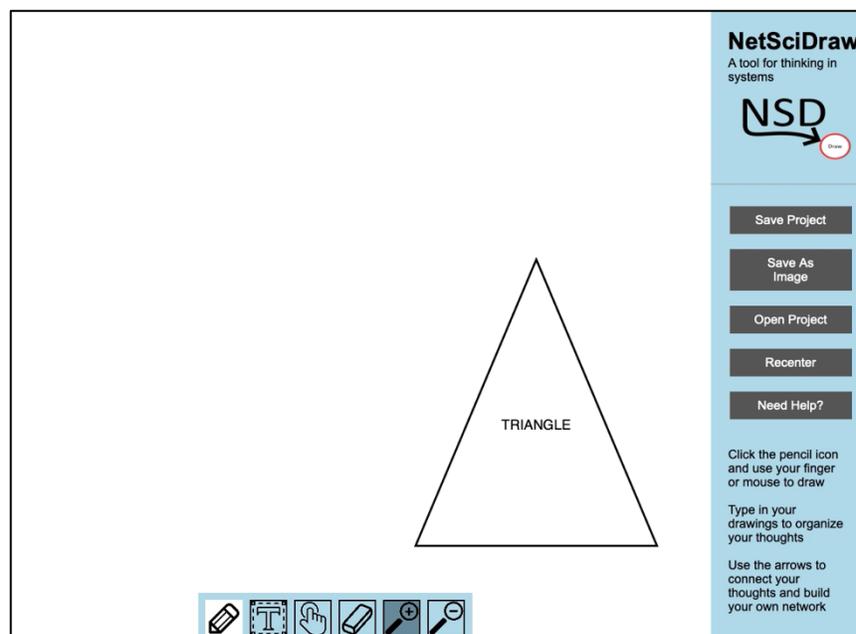
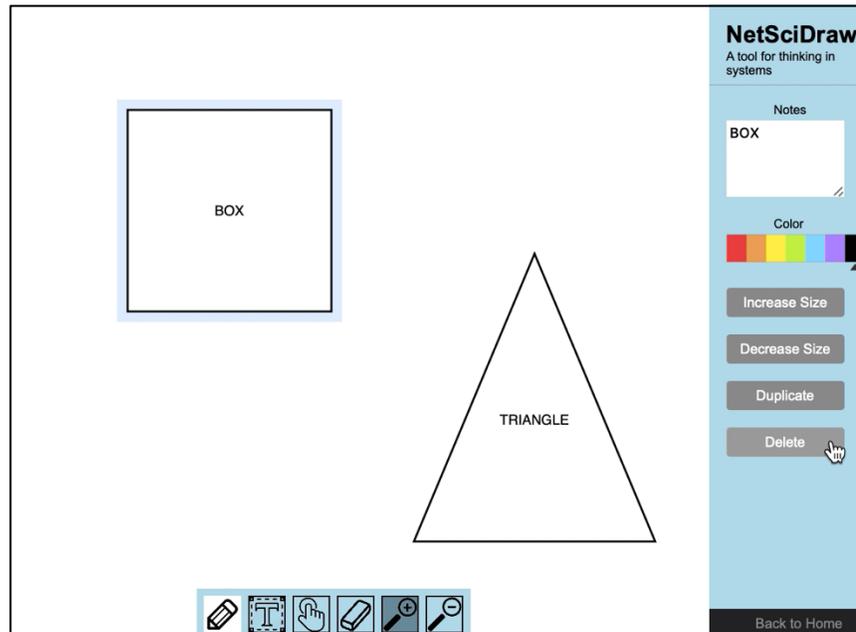
- ⇒ Select the shape you want to duplicate. When you have selected a shape, it will become highlighted in light blue.
- ⇒ Select Duplicate Shape in the sidebar. Another shape, exactly like the one you have selected will appear on the canvas.



Deleting a Shape

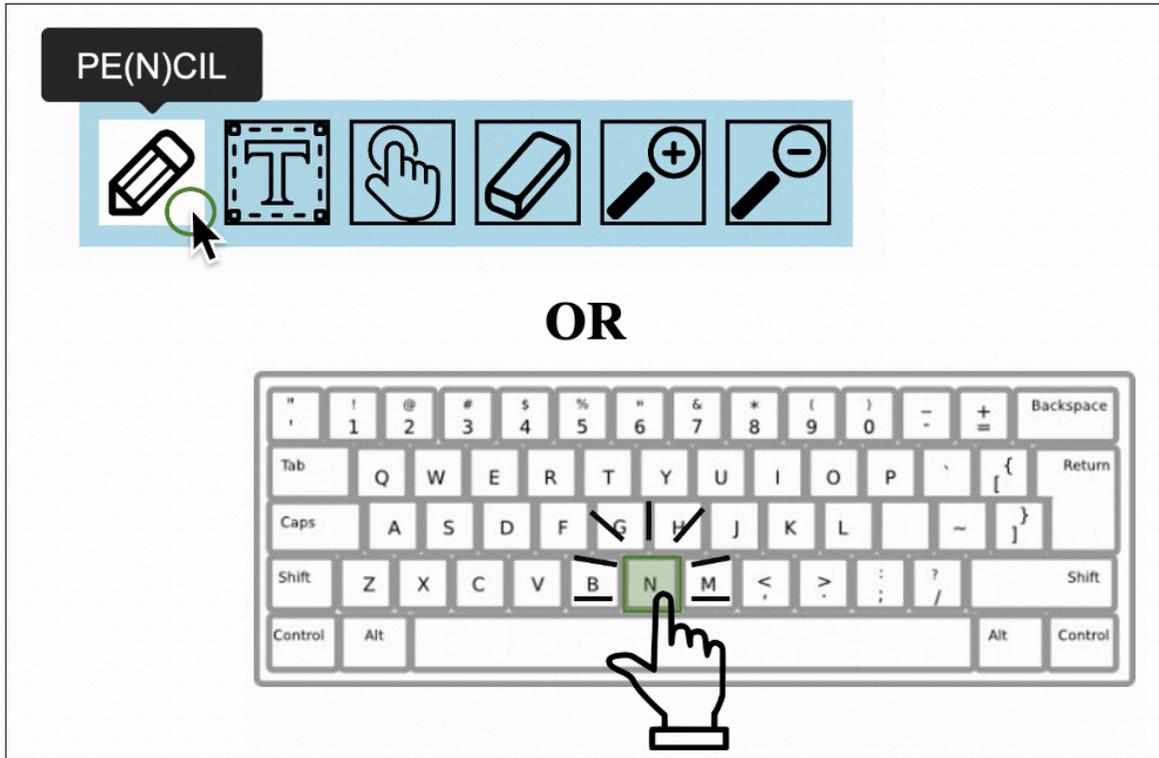
⇒ Select the shape you want to delete. When you have selected a shape, it will become highlighted in light blue.

⇒ Select Delete in the sidebar. The selected shape will disappear from the canvas.

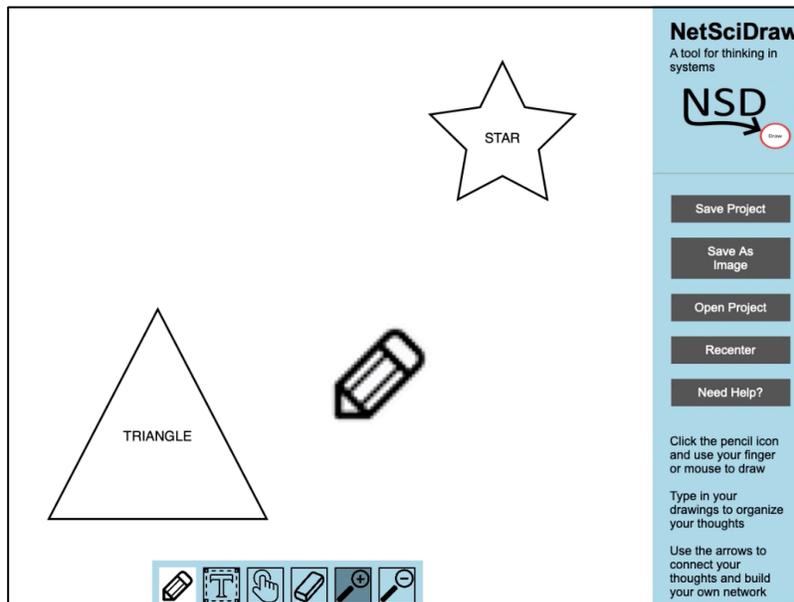


How to Create Arrows

⇒ First, select the Pencil function by clicking on the Pencil on the Toolbar OR by using the “N” key on your device’s keyboard.



Once you have selected the pencil function, the cursor icon will change to a pencil.



⇒ Then,

⇒ If you are using a non-touchscreen device, use your mouse or touchpad to draw a curved line or an arc connecting one shape to another.

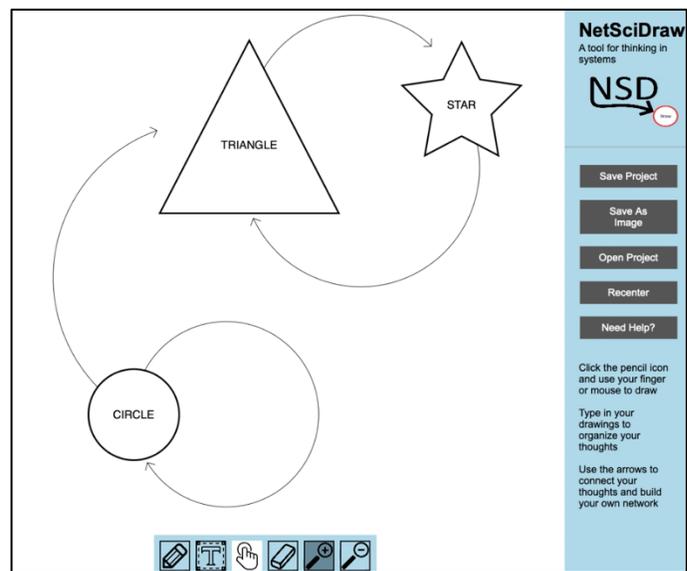
- * Left click on the shape you want your arrow to start from.
- * Hold your left click as you outline your arrow.
- * When you have finished outlining your curved line, and your cursor is touching the shape you want the arrow pointing to, release your left click and an arrow will appear on the canvas.

⇒ If you are using a touchscreen device, use your finger or stylus to draw a curved line or an arc connecting one shape to another.

- * Use your finger or stylus to touch the shape you want your arrow to start from.
- * Use your finger/stylus to outline a curved line or an arc connecting the selected shape to another.
- * When you have finished outlining your curved line, and your finger/stylus is touching the shape you want the arrow pointing to, remove your finger or stylus from the screen and an arrow will appear on the canvas.

*** **NOTE:** The direction of the arrow will reflect the direction in which you drew the curved line or arc.

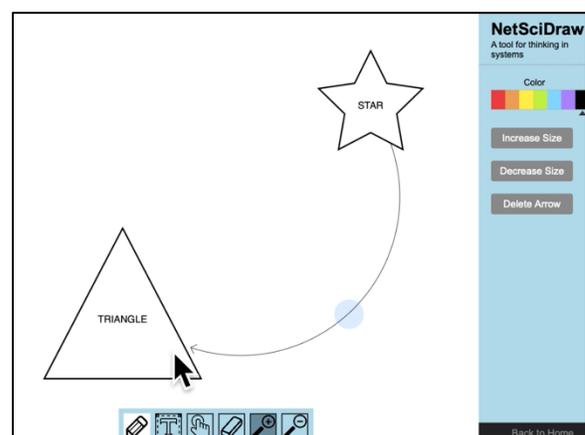
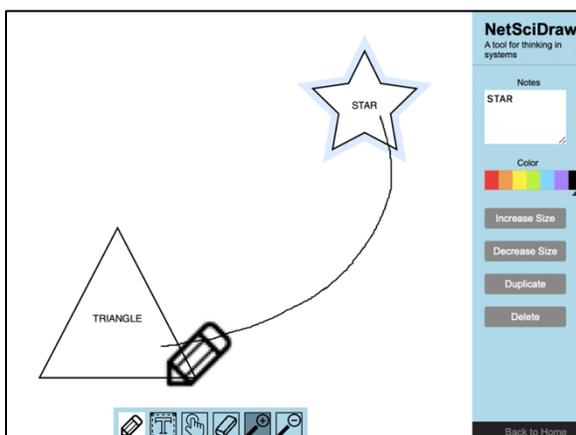
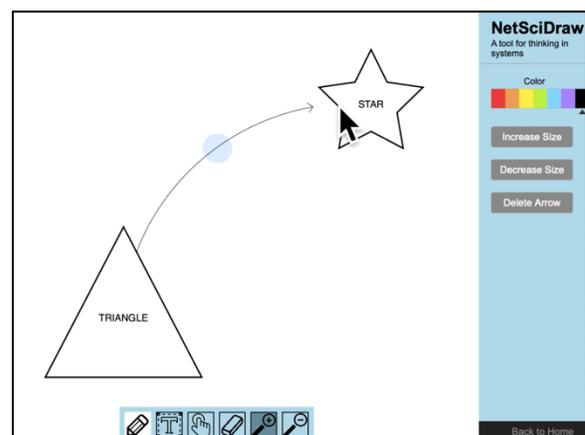
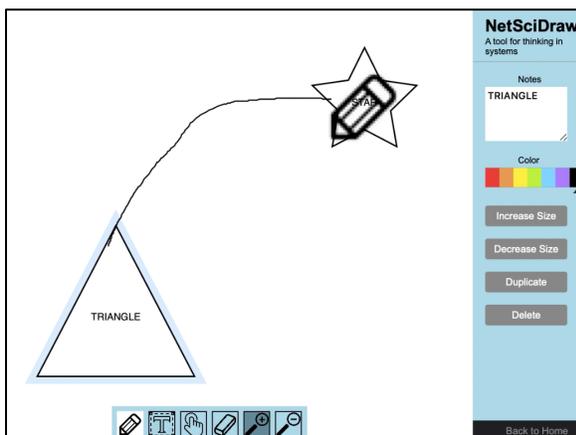
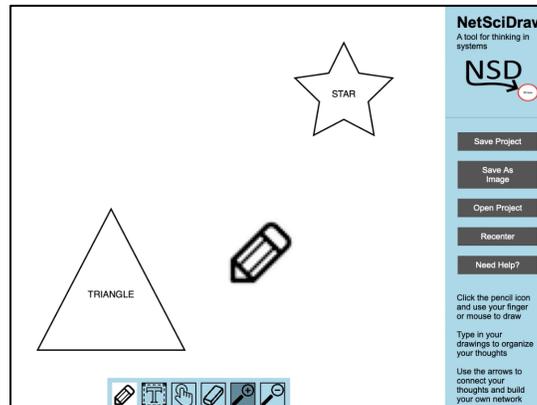
⇒ You can also create an arrow that connects a shape to itself by creating a curve or an arc from one side of a shape to another side.



Creating Arrows on Non-Touchscreen Devices (Shape to Shape)

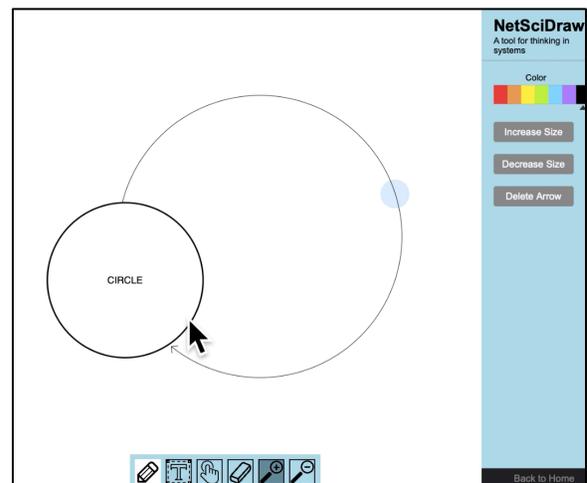
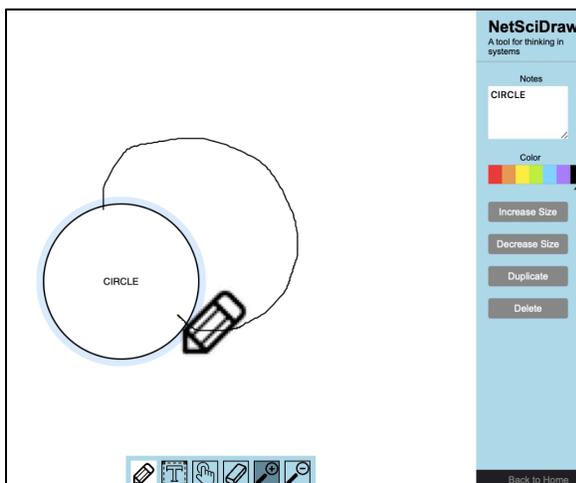
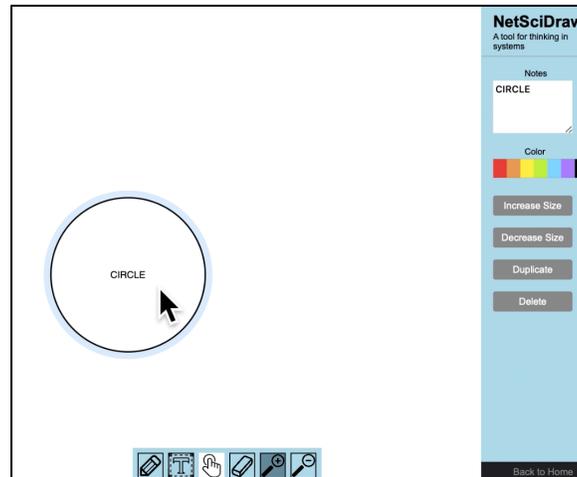
⇒ Hold down your left click and use your cursor to outline a curved line or an arc connecting one shape to another.

⇒ When you have finished outlining your curved line, release your left click and an arrow will appear on the canvas.



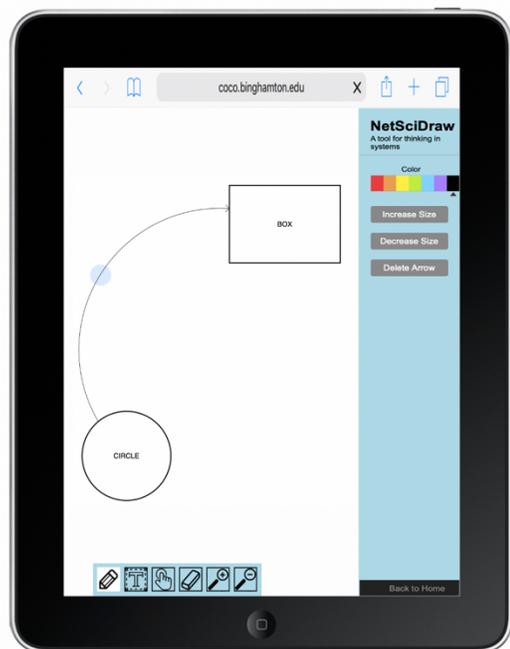
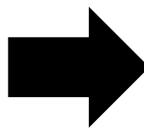
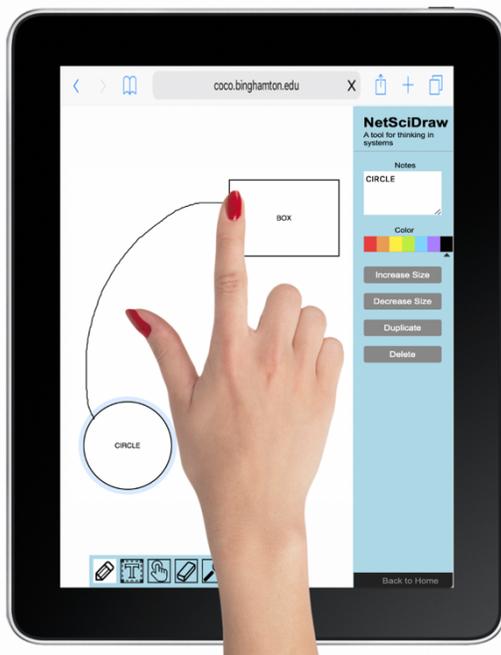
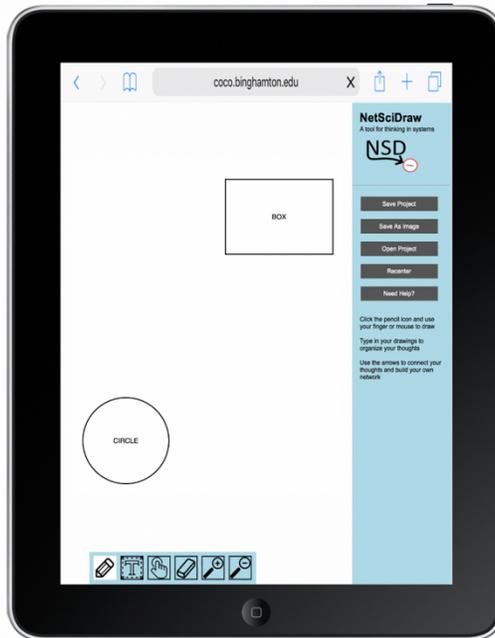
Creating Arrows on Non-Touchscreen Devices (Shape to Itself)

- ⇒ Hold down your left click and use your cursor to outline a curved line or an arc connecting one part of a shape to another part of the same shape.
- ⇒ When you have finished outlining your curved line, release your left click and an arrow will appear on the canvas.



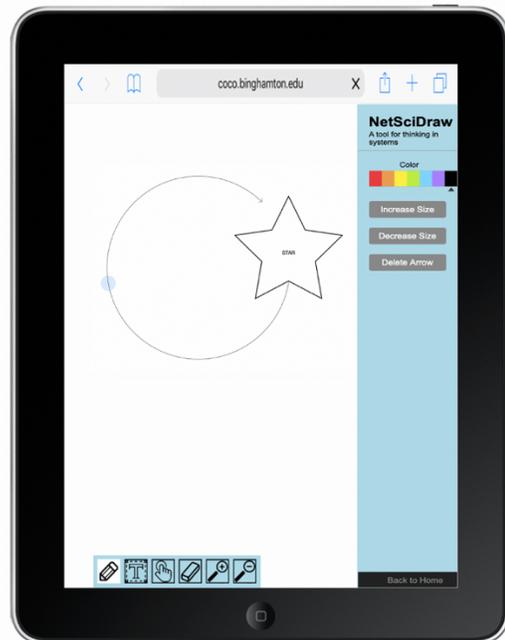
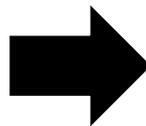
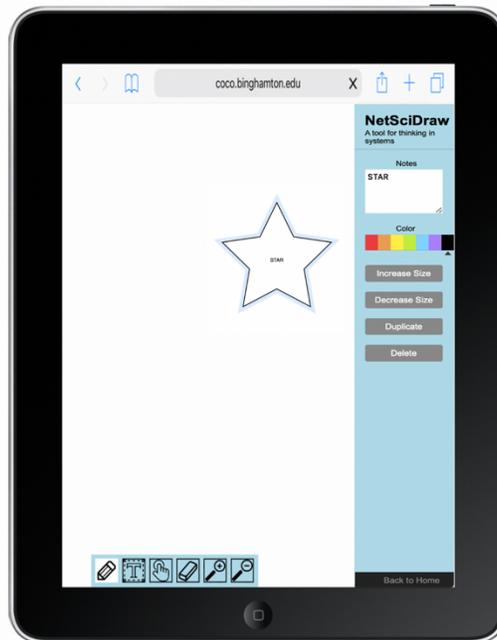
Creating Arrows on Touchscreen Devices (Shape to Shape)

- ⇒ Use your finger or stylus to outline a curved line or an arc connecting one shape to another.
- ⇒ When you have finished outlining your curved line, remove your finger or stylus from the screen and an arrow will appear on the canvas.



Creating Arrows on Touchscreen Devices (Shape to Itself)

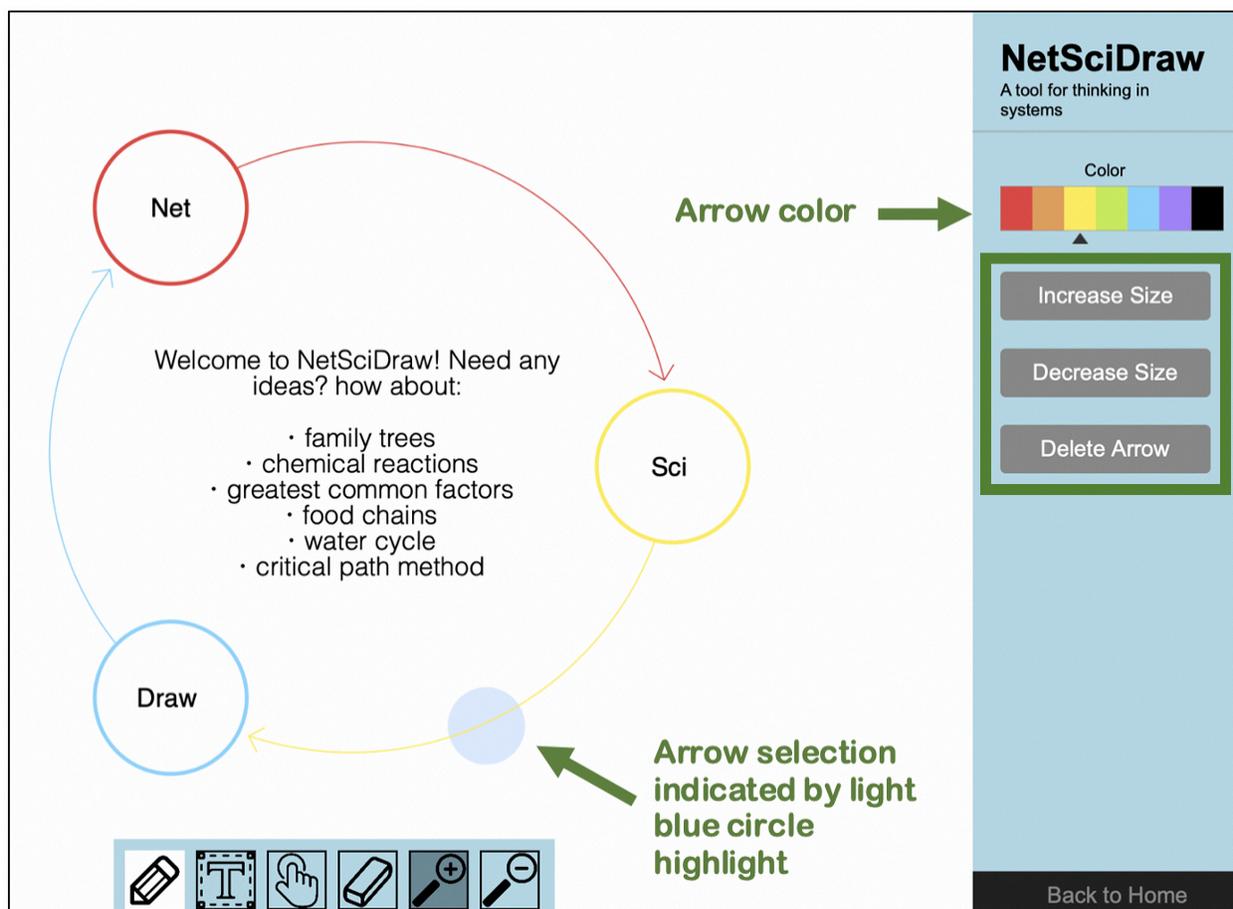
- ⇒ Use your finger or stylus to outline a curved line or an arc connecting one part of a shape to another part of the same shape.
- ⇒ When you have finished outlining your curved line, remove your finger or stylus from the screen and an arrow will appear on the canvas.



How to Edit Arrows

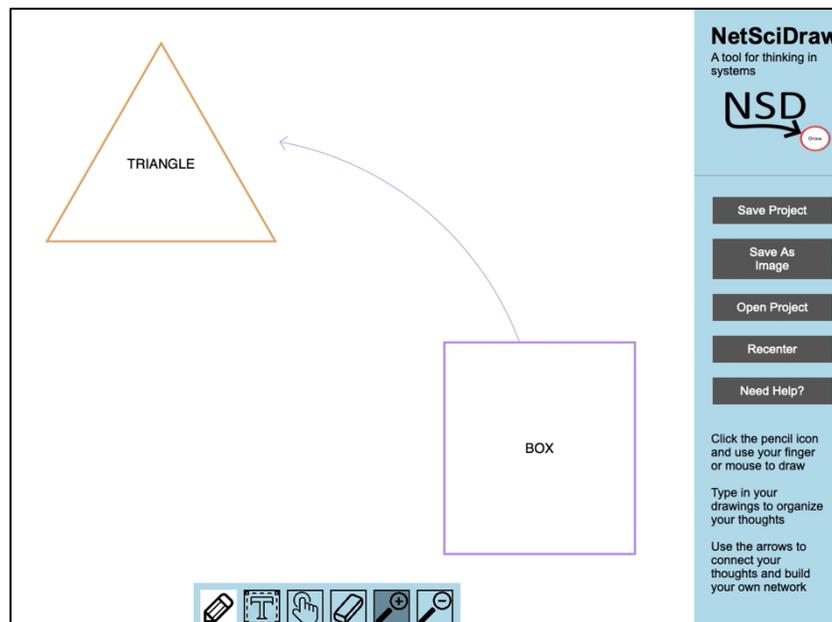
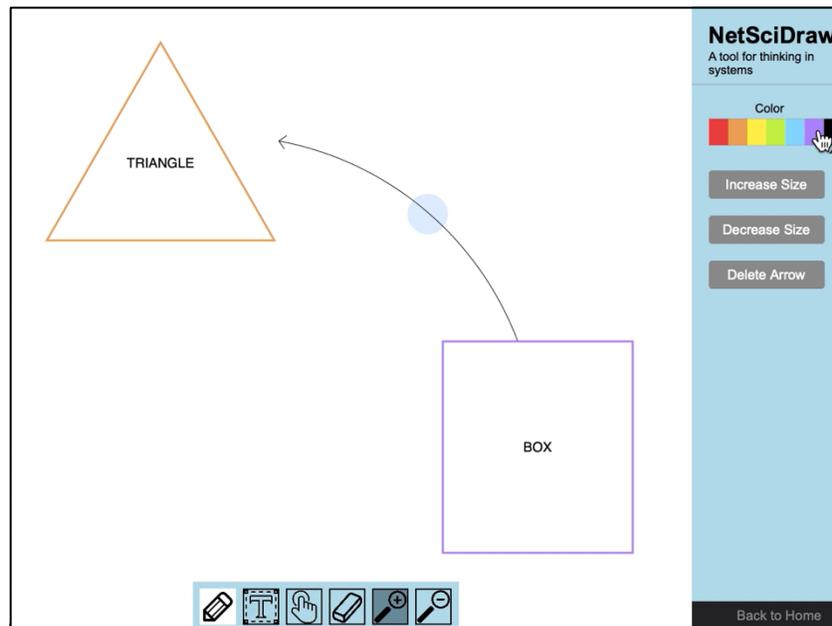
When you select an **arrow**, you will see the following sidebar options:

- **Color** → You can change the color of the arrow
- **Increase Size** → You can increase the size of the arrow
- **Decrease Size** → You can decrease the size of the arrow
- **Delete Arrow** → You can delete the arrow
- **Back to Home** → You can go back to the home screen options



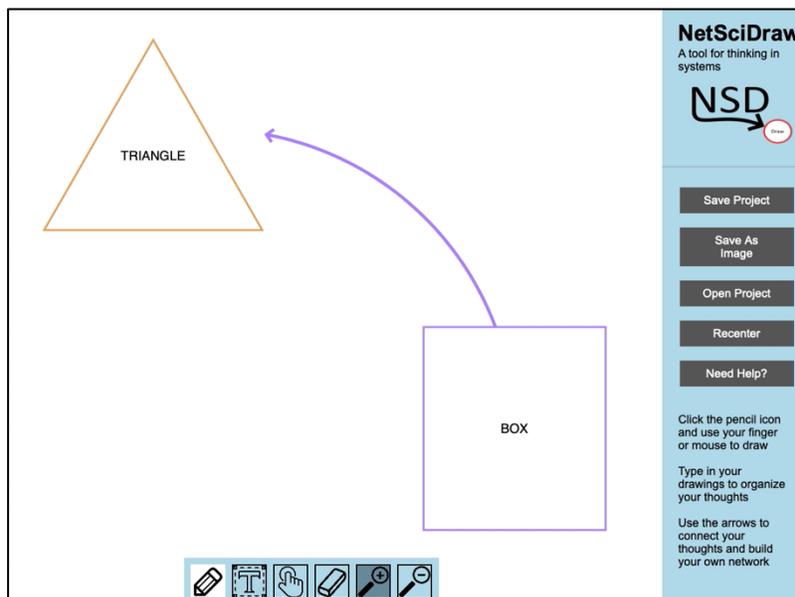
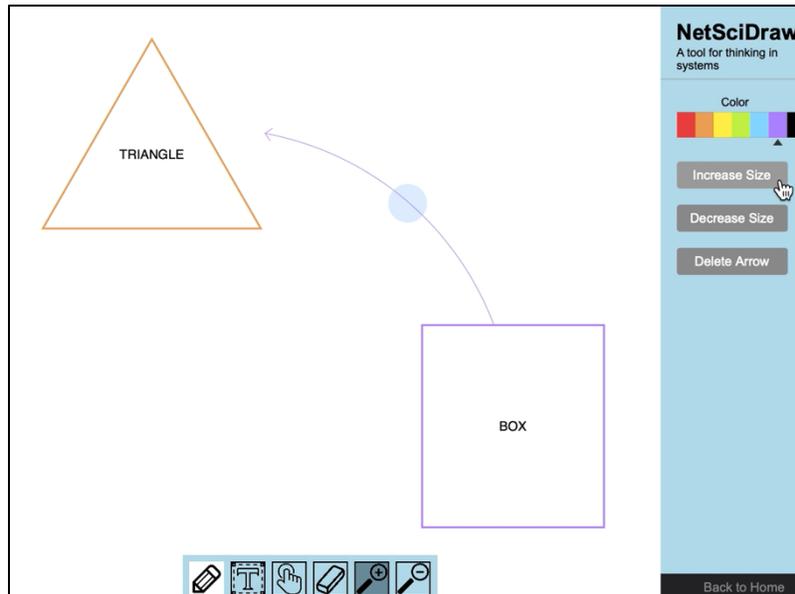
Changing an Arrow's Color

- ⇒ Select the arrow you want to change. When you have selected an arrow, it will become highlighted with a light blue circle.
- ⇒ Next, in the sidebar, select your desired color.



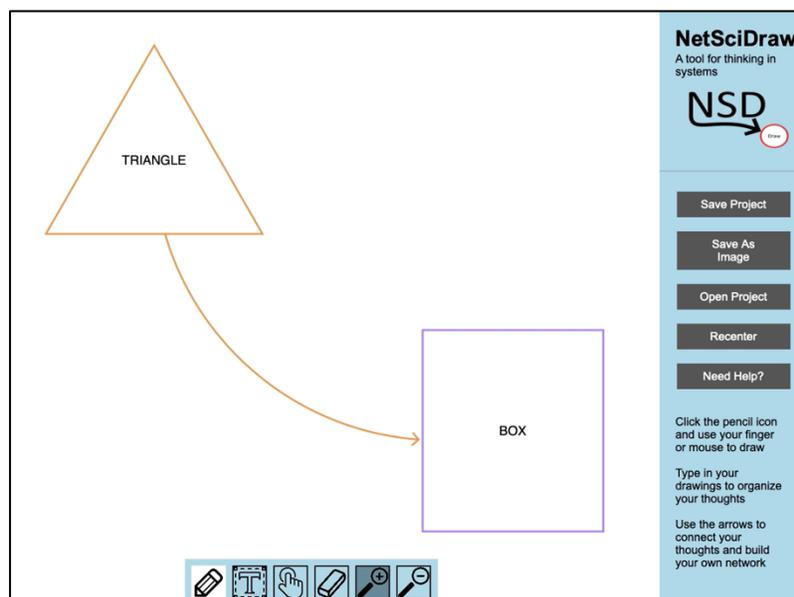
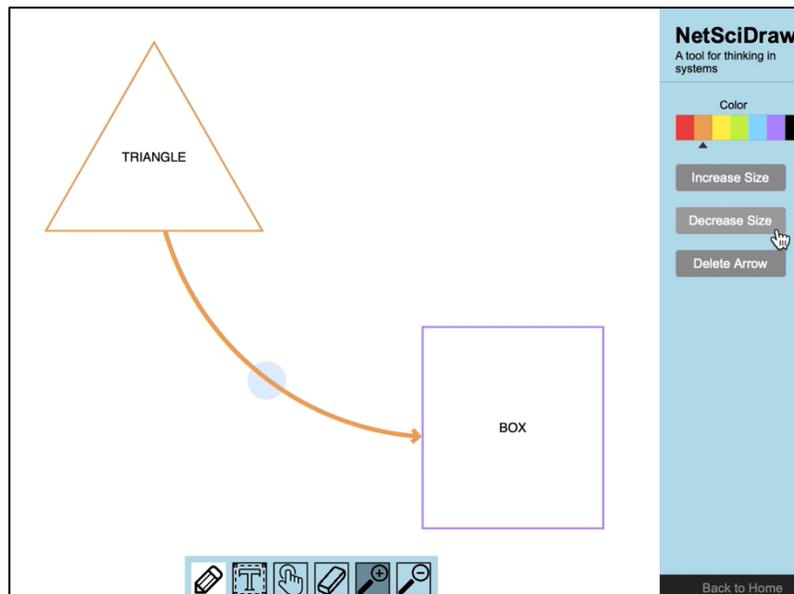
Increasing the Size of an Arrow

- ⇒ Select the arrow you want to change. When you have selected an arrow, it will become highlighted with a light blue circle.
- ⇒ Select Increase Size in the sidebar.
- ⇒ Continue selecting Increase Size in the sidebar until you are satisfied with the size of the arrow.



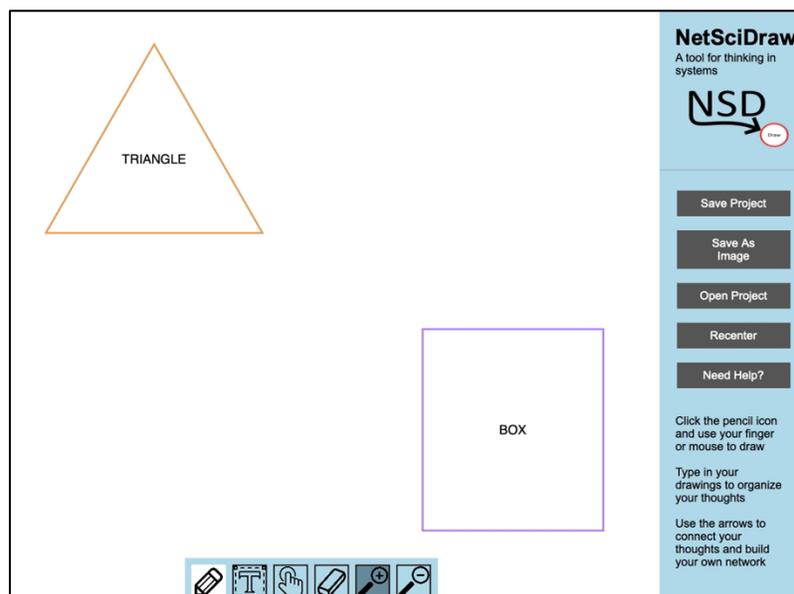
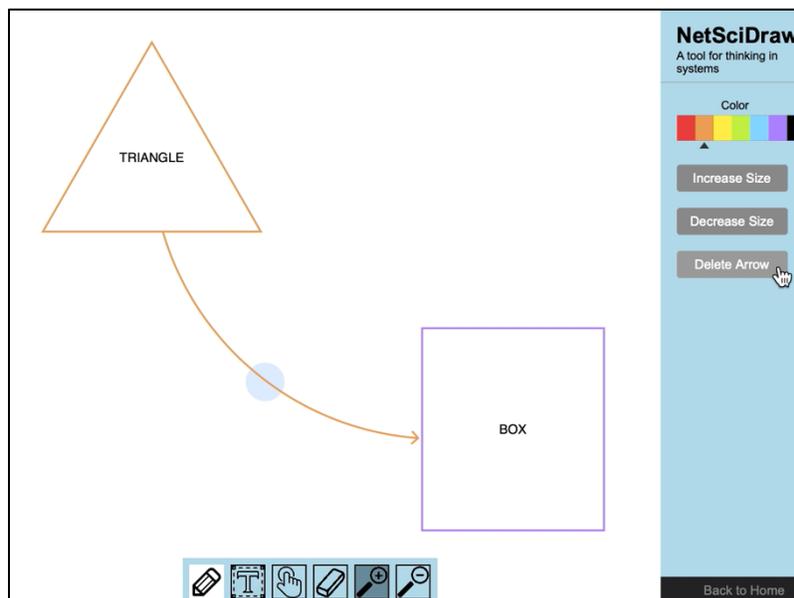
Decreasing the Size of an Arrow

- ⇒ Select the arrow you want to change. When you have selected an arrow, it will become highlighted with a light blue circle.
- ⇒ Select Decrease Size in the sidebar.
- ⇒ Continue selecting Decrease Size in the sidebar until you are satisfied with the size of the arrow.



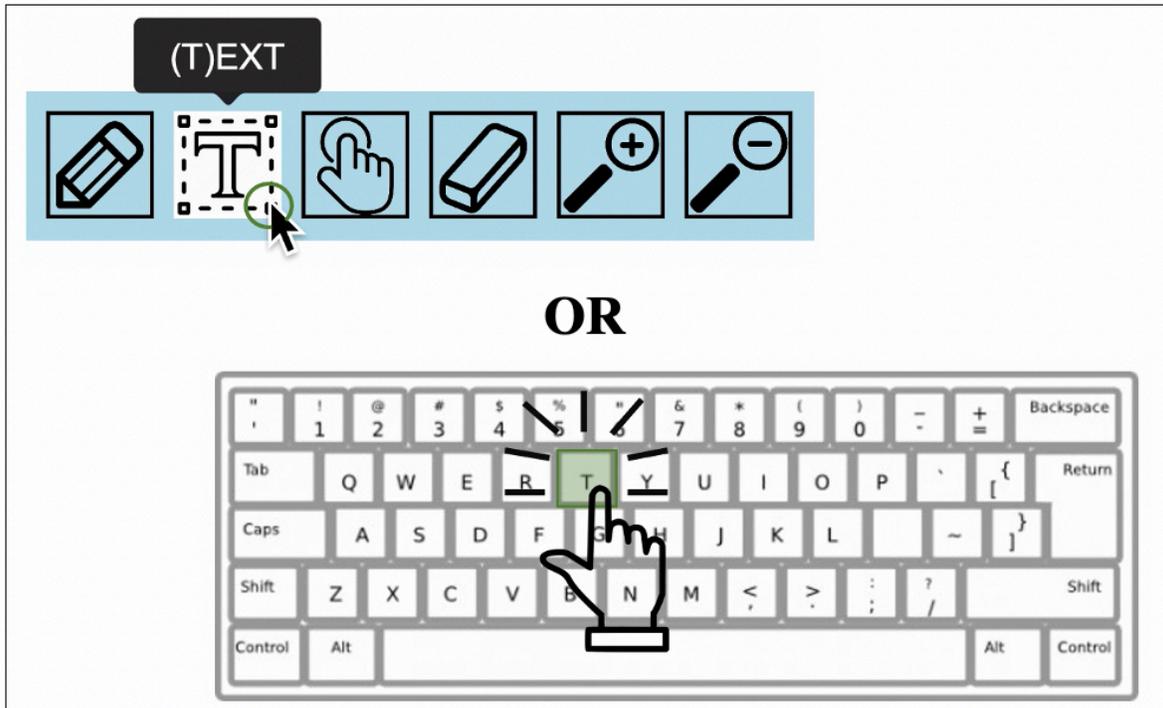
Deleting an Arrow

- ⇒ Select the arrow you want to delete. When you have selected an arrow, it will become highlighted with a light blue circle.
- ⇒ Select Delete Arrow in the sidebar. The selected arrow will disappear from the canvas.

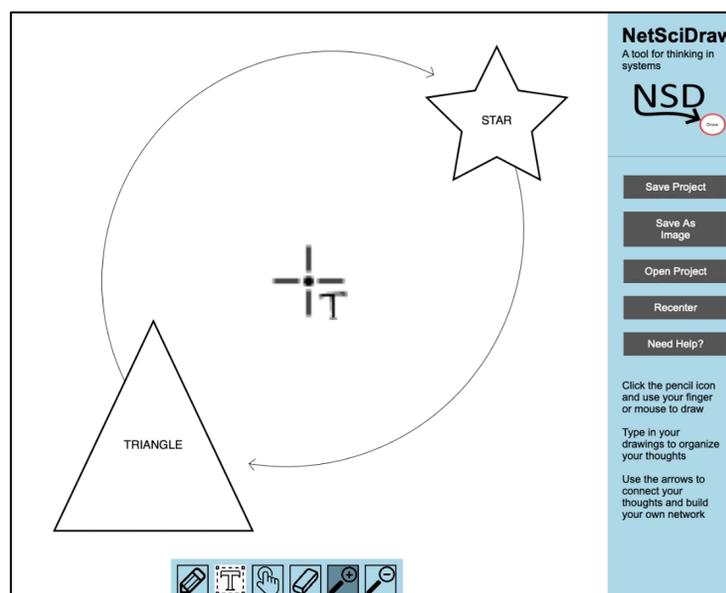


How to Create Text (or Labels)

⇒ First, select the Text function by clicking on the Text Box on the Toolbar OR by using the “T” key on your device’s keyboard.



Once you have selected the text function, the cursor icon will change to a crosshair with the letter T at the bottom right.



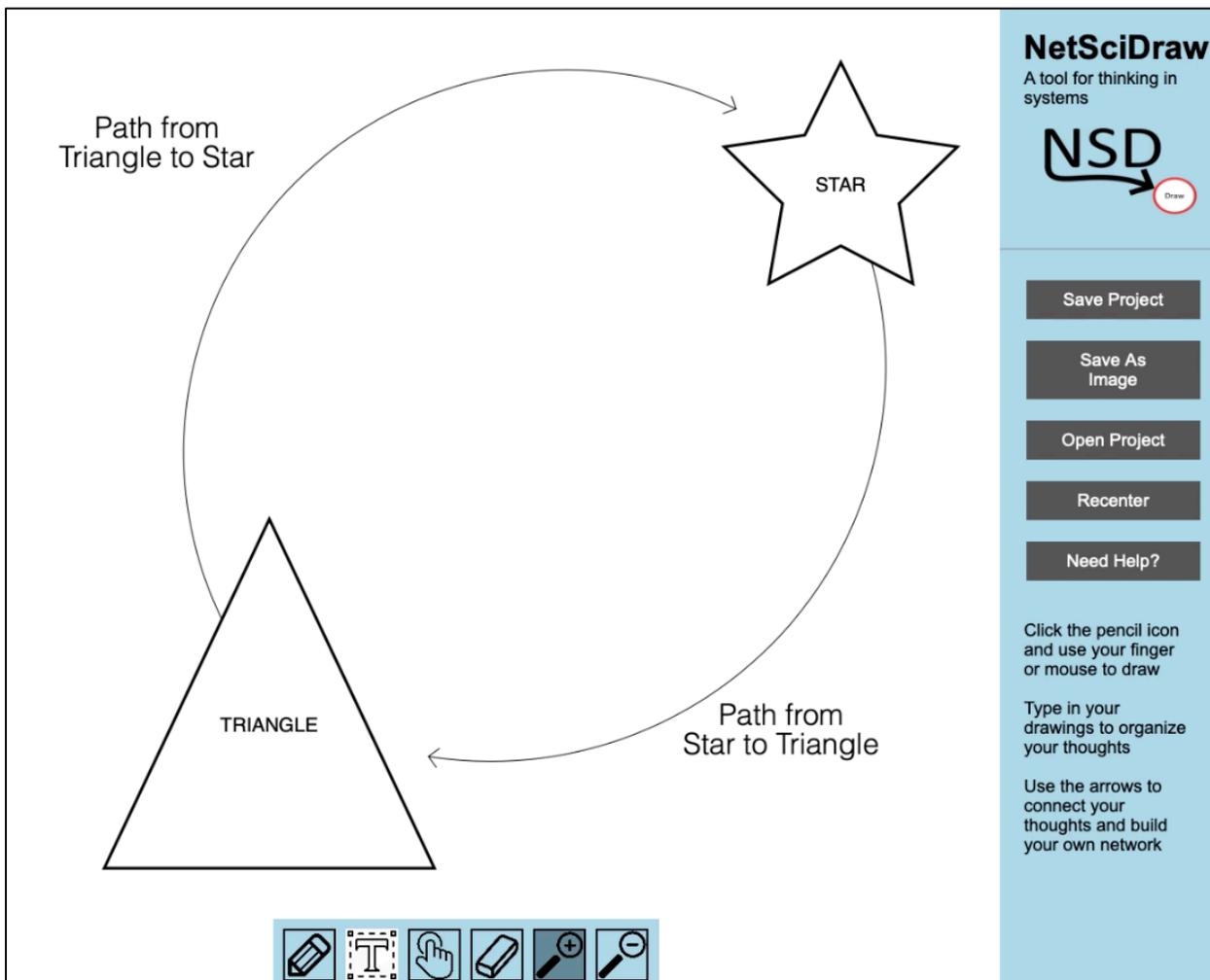
⇒ Then,

⇒ If you are using a non-touchscreen device, use your mouse or touchpad to click on the canvas where you would like to place text.

⇒ If you are using a touchscreen device, use your finger or stylus to click on the canvas where you would like to place text.

⇒ After that,

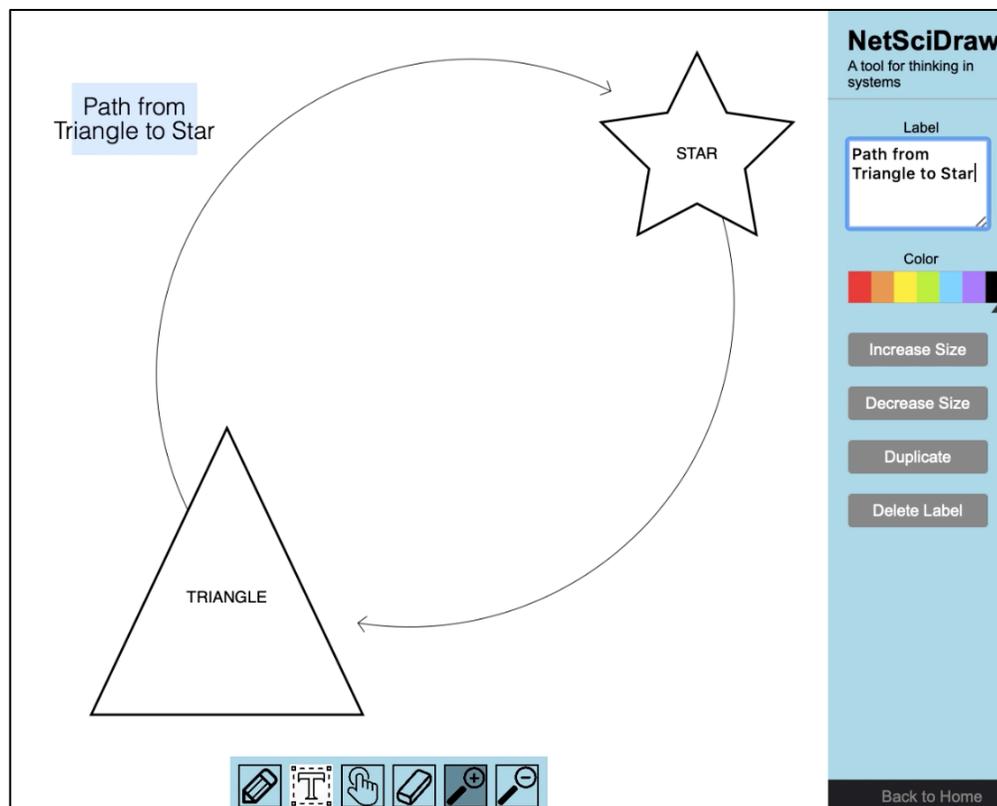
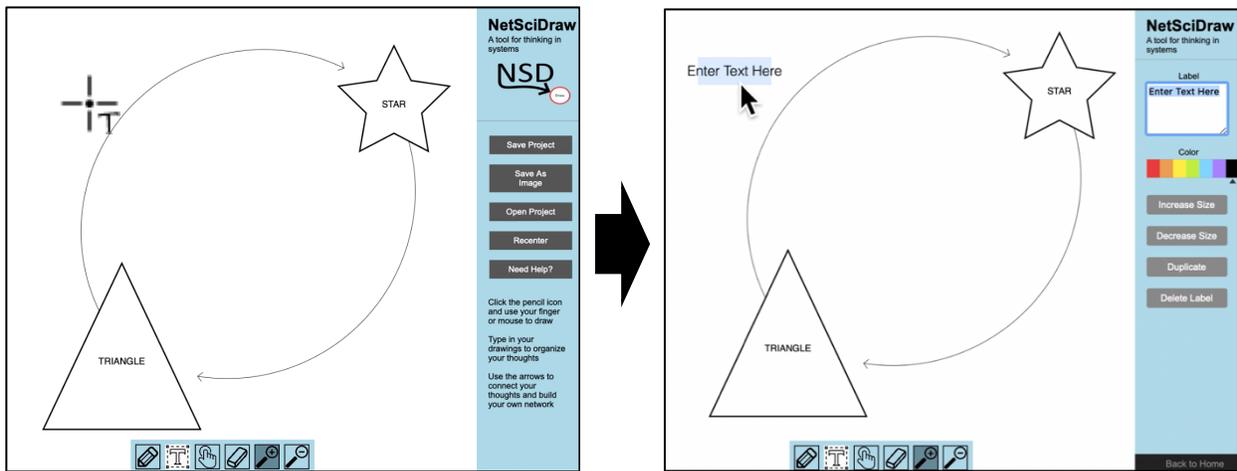
⇒ Use your keyboard to type the text you want to appear in the label.



Creating Text on Non-Touchscreen Devices

⇒ Use your mouse or touchpad to click on the canvas where you would like to place text.

⇒ Then, use your keyboard to type the text you want to appear in the label.



Path from Triangle to Star

TRIANGLE

STAR

NetSciDraw
A tool for thinking in systems

NSD

Save Project
Save As Image
Open Project
Recentier
Need Help?

Click the pencil icon and use your finger or mouse to draw

Type in your drawings to organize your thoughts

Use the arrows to connect your thoughts and build your own network



Path from Triangle to Star

TRIANGLE

STAR

Enter Text Here

NetSciDraw
A tool for thinking in systems

Label
Enter Text Here

Color

Increase Size
Decrease Size
Duplicate
Delete Label

Back to Home



Path from Triangle to Star

TRIANGLE

STAR

Path from Star to Triangle

NetSciDraw
A tool for thinking in systems

Label
Path from Star to Triangle

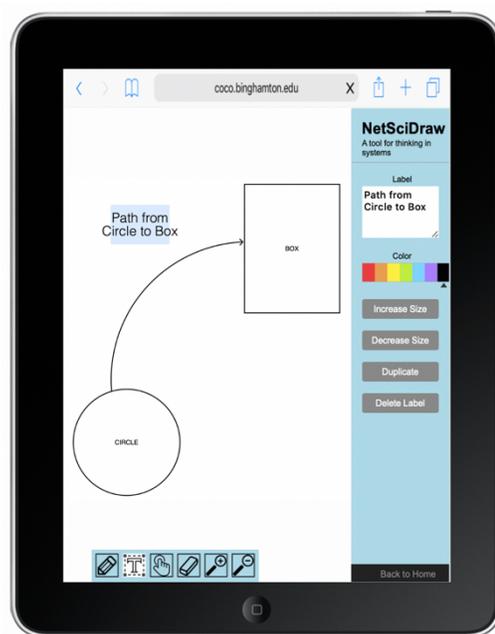
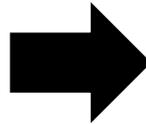
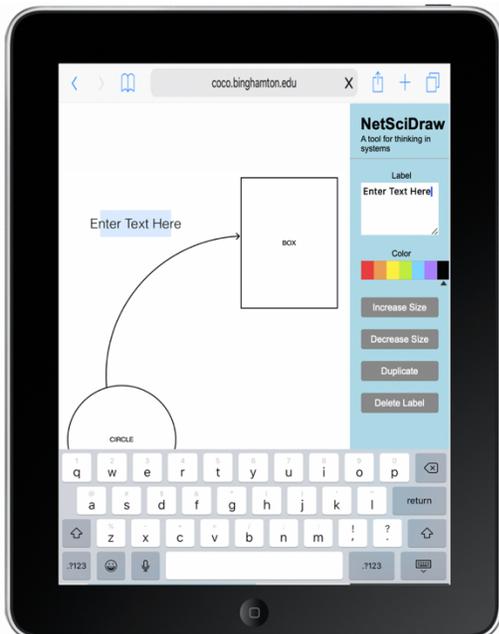
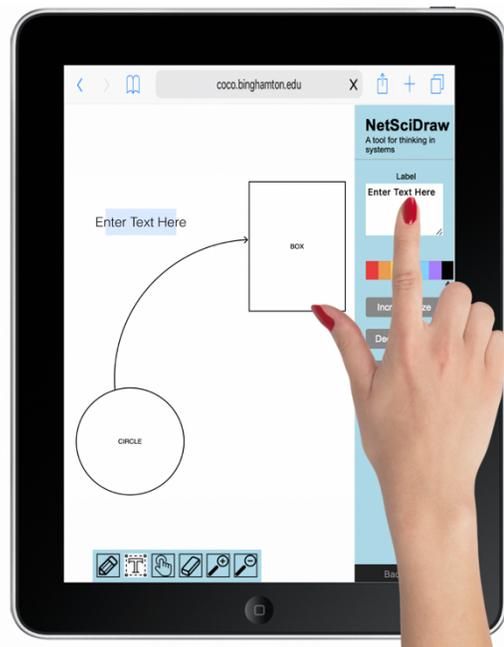
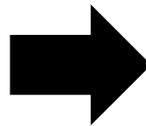
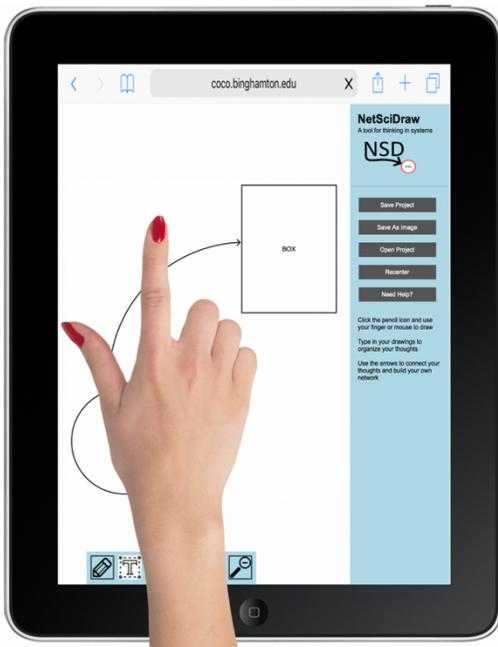
Color

Increase Size
Decrease Size
Duplicate
Delete Label

Back to Home

Creating Text on Touchscreen Devices

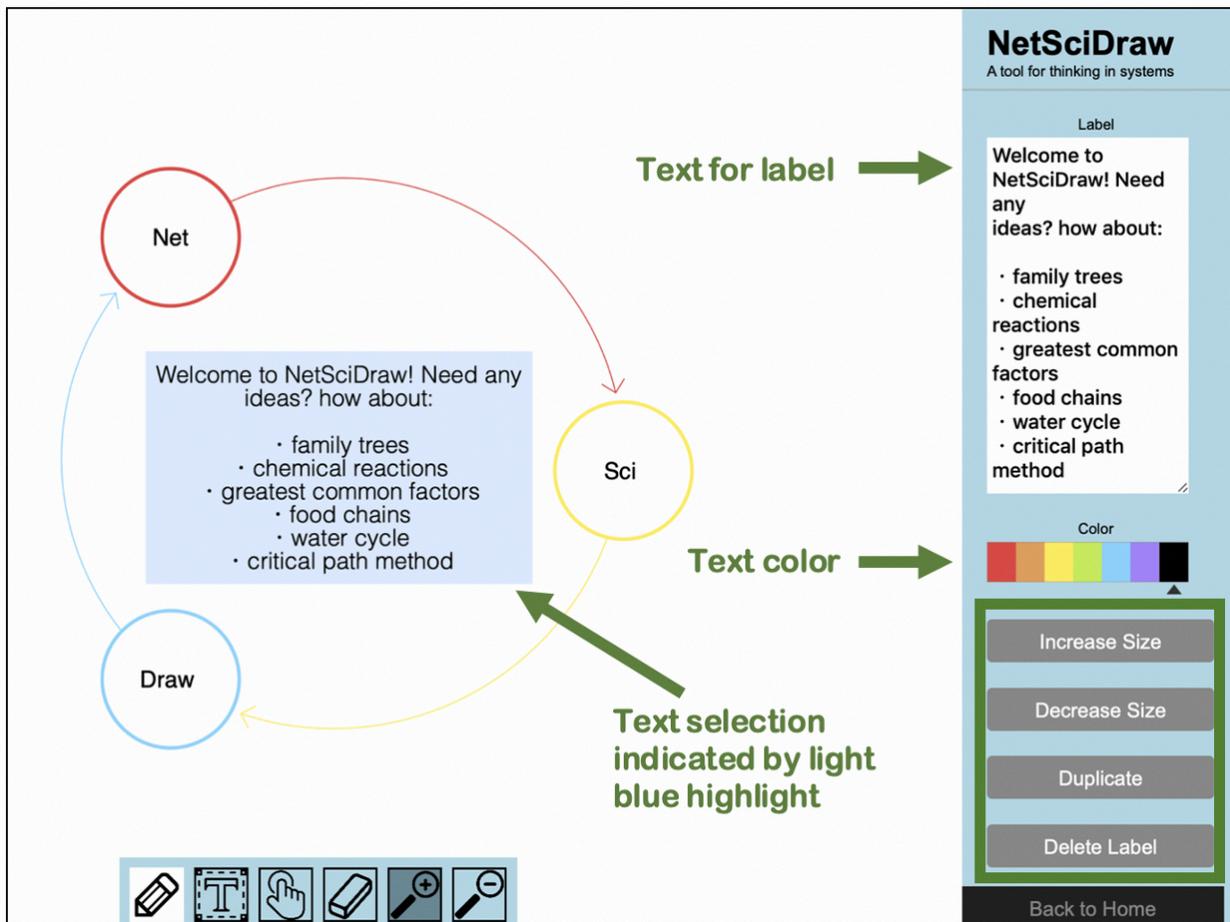
- ⇒ Use your finger or stylus to click on the canvas where you would like to place text.
- ⇒ Then, use your finger or stylus to click on the label box in the sidebar.
- ⇒ After that, use your device's keyboard to type the text you want to appear in the label.



How to Edit Text (or Labels)

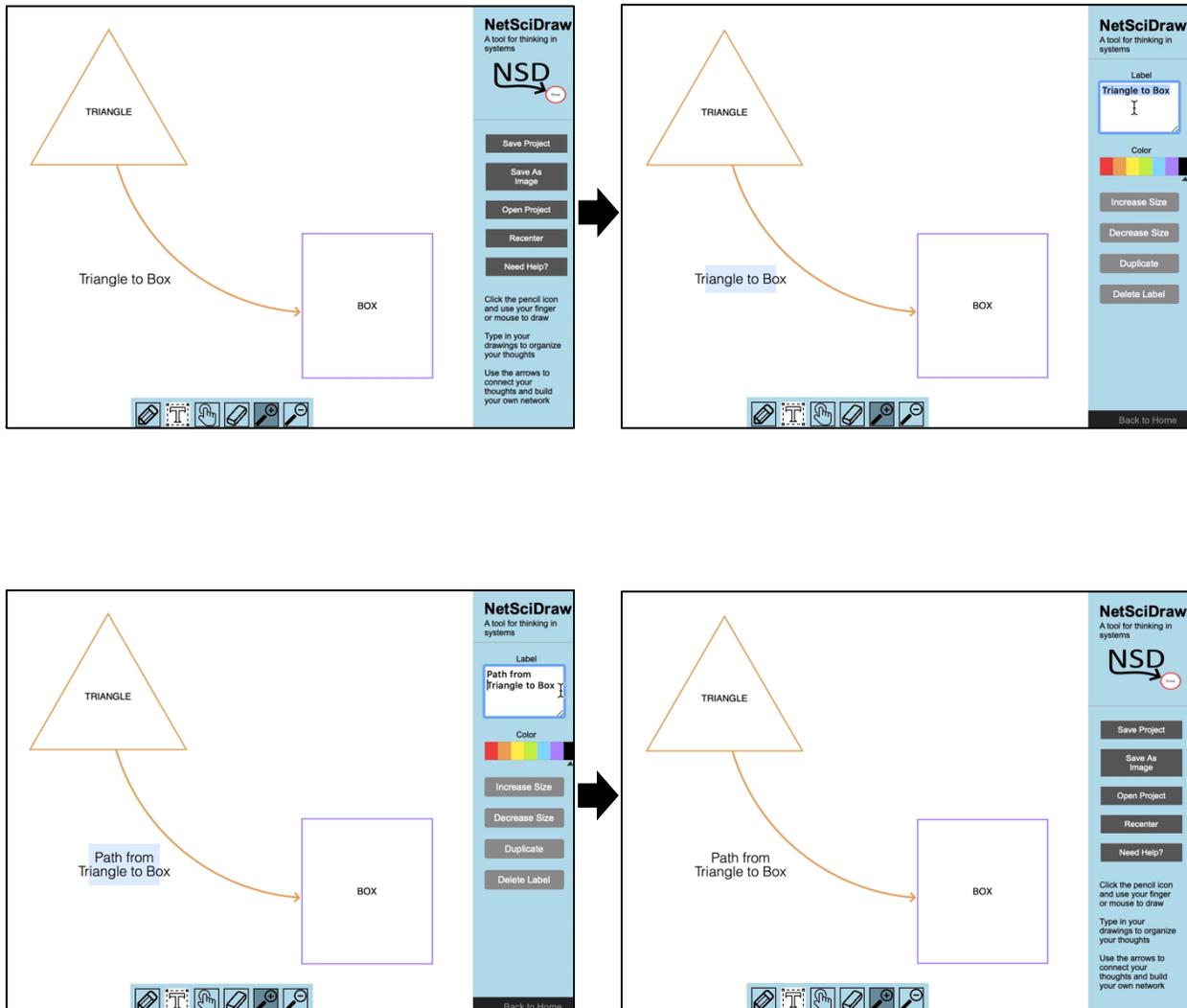
When you select a **label (text)**, you will see the following sidebar options:

- Label → You can add text within the label
- Color → You can change the color of the text
- Increase Size → You can increase the size of the text
- Decrease Size → You can decrease the size of the text
- Duplicate → You can duplicate the label
- Delete Label → You can delete the label
- Back to Home → You can go back to the home screen options



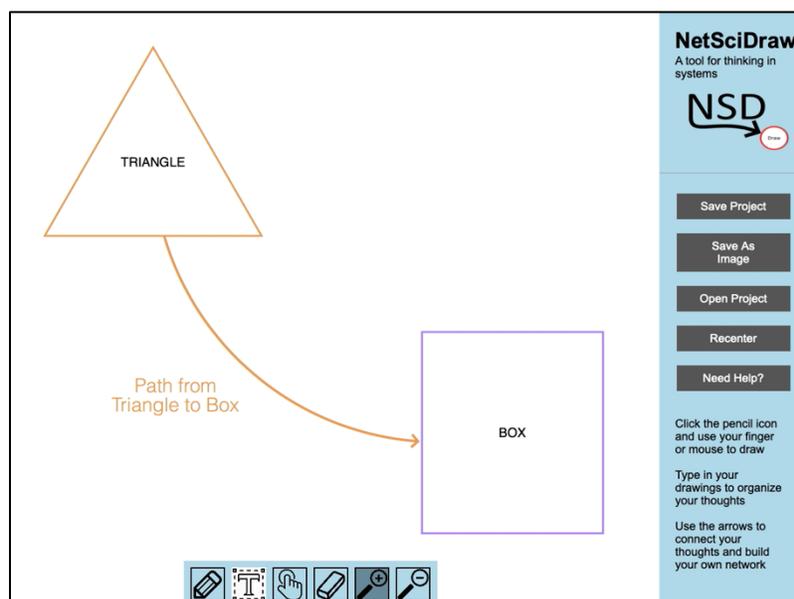
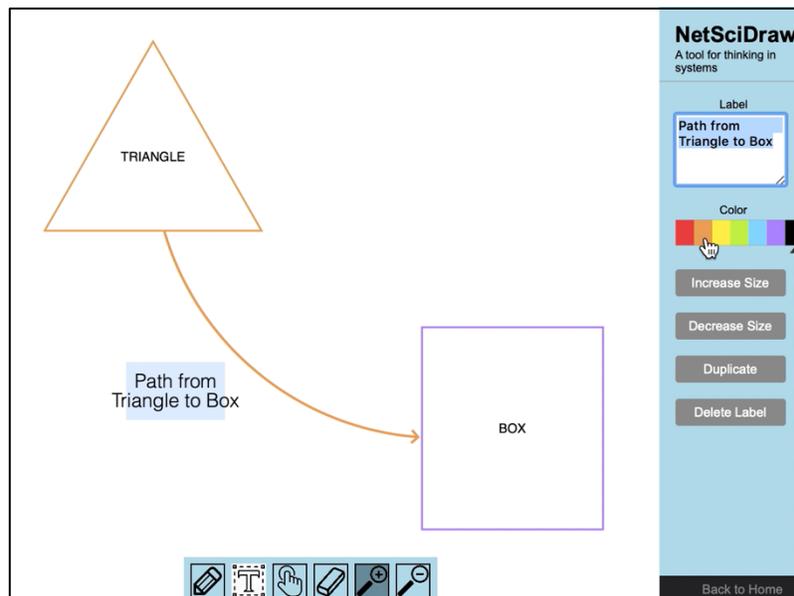
Editing Text Within a Label

- ⇒ Select the label you want to change. When you have selected a label, it will become highlighted in light blue.
- ⇒ Then, use your cursor, finger or stylus to click on the label box in the sidebar. When you have selected the label box, it will become outlined in blue.
- ⇒ After that, use your device's keyboard to type the text you want to appear in the label.



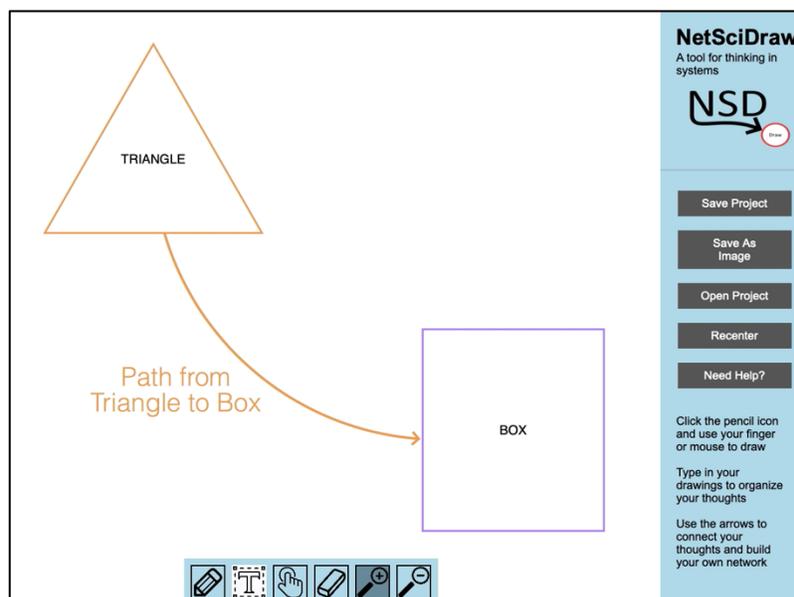
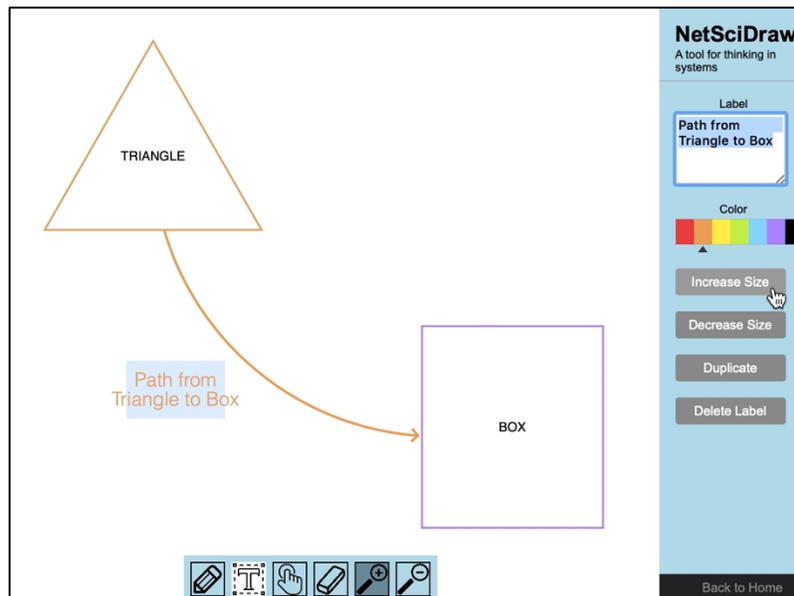
Changing a Label's Font Color

- ⇒ Select the label you want to change. When you have selected a label, it will become highlighted in light blue.
- ⇒ Next, in the sidebar, select your desired font color.



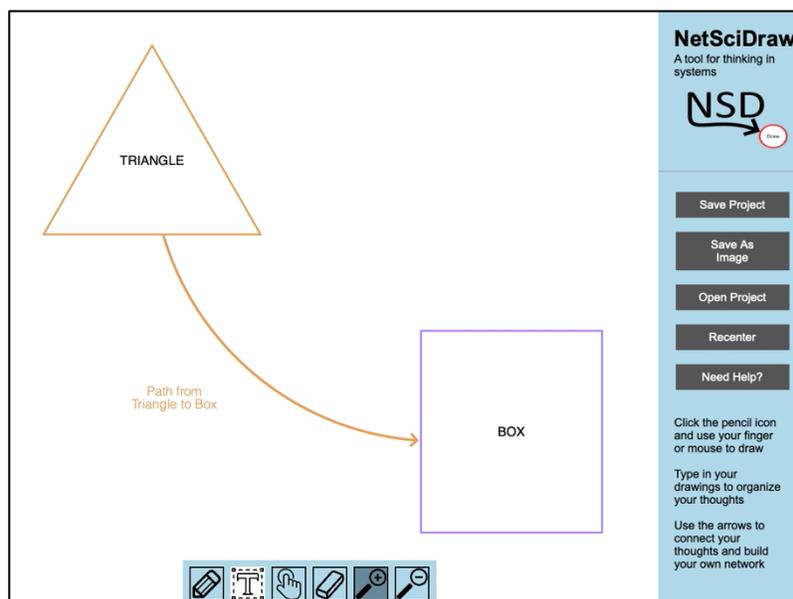
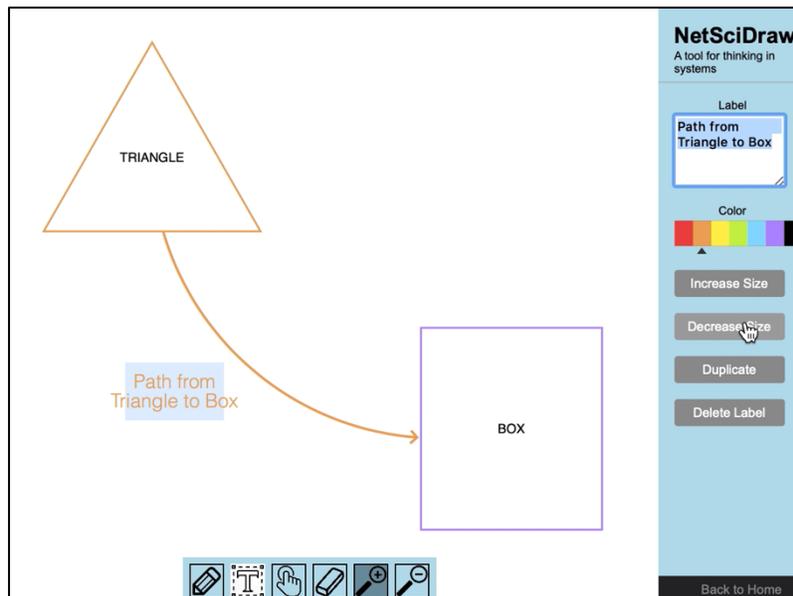
Increasing the Size of a Label's Font

- ⇒ Select the label you want to change. When you have selected a label, it will become highlighted in light blue.
- ⇒ Select Increase Size in the sidebar.
- ⇒ Continue selecting Increase Size in the sidebar until you are satisfied with the size of the font.



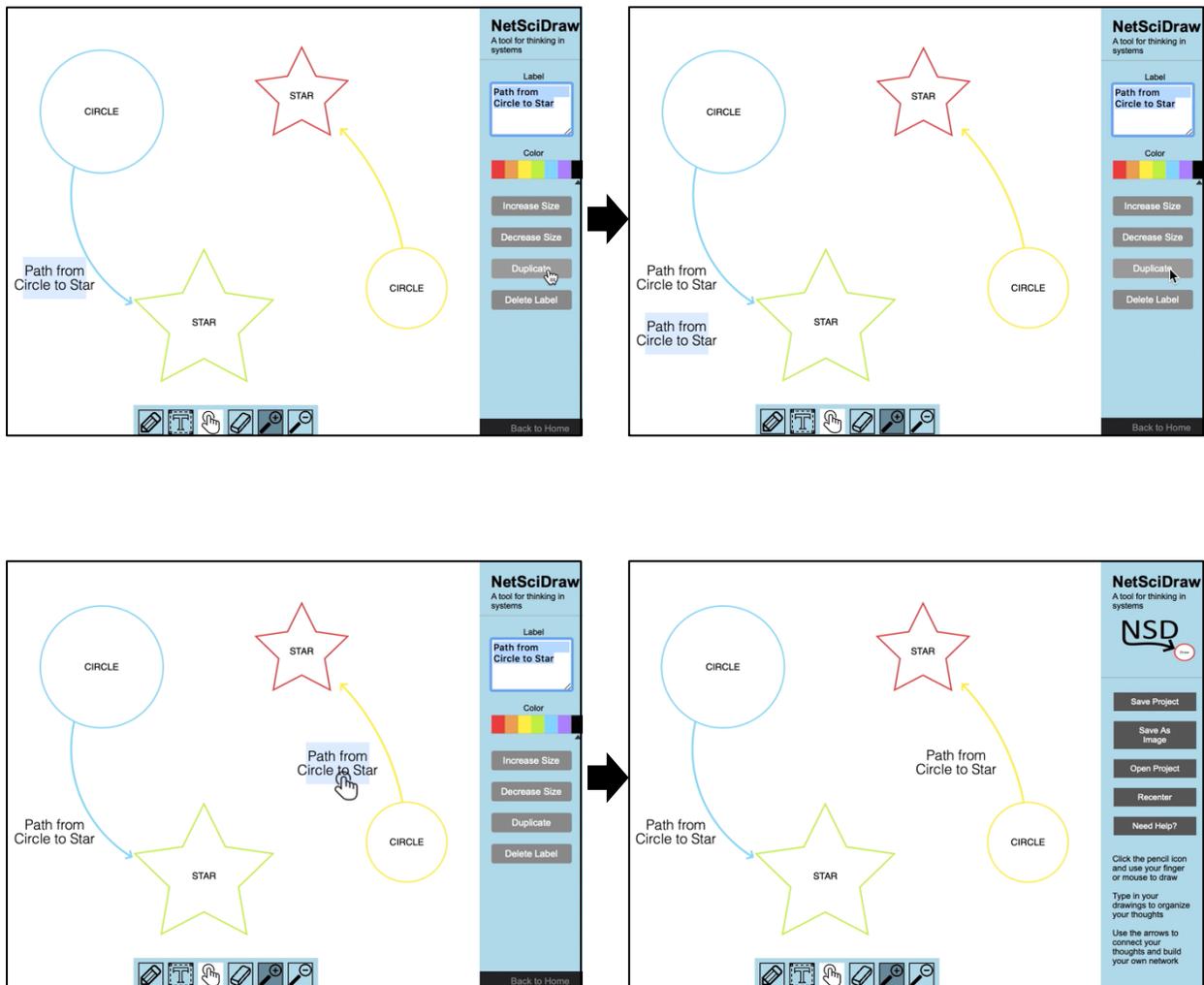
Decreasing the Size of a Label's Font

- ⇒ Select the label you want to change. When you have selected a label, it will become highlighted in light blue.
- ⇒ Select Decrease Size in the sidebar.
- ⇒ Continue selecting Decrease Size in the sidebar until you are satisfied with the size of the font.



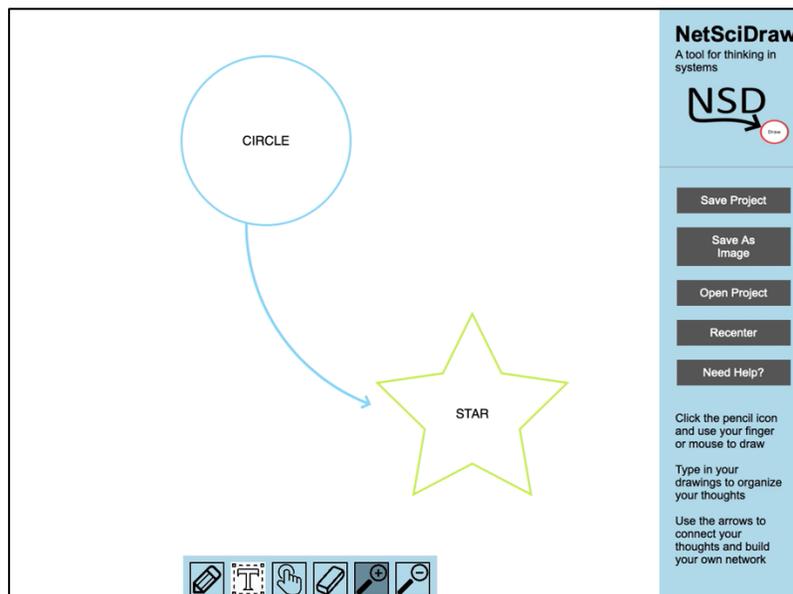
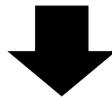
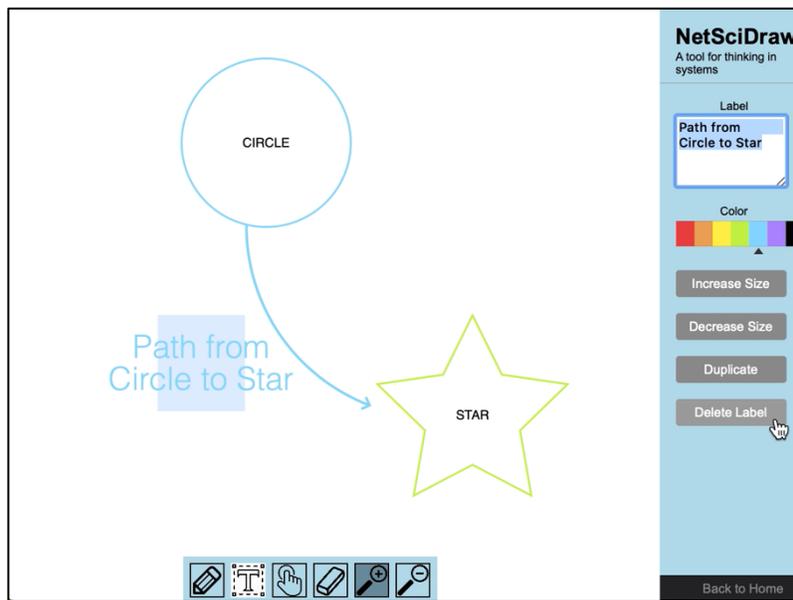
Duplicating a Label

- ⇒ Select the label you want to duplicate. When you have selected a label, it will become highlighted in light blue.
- ⇒ Select **Duplicate Shape** in the sidebar. Another label, exactly like the one you have selected will appear on the canvas.



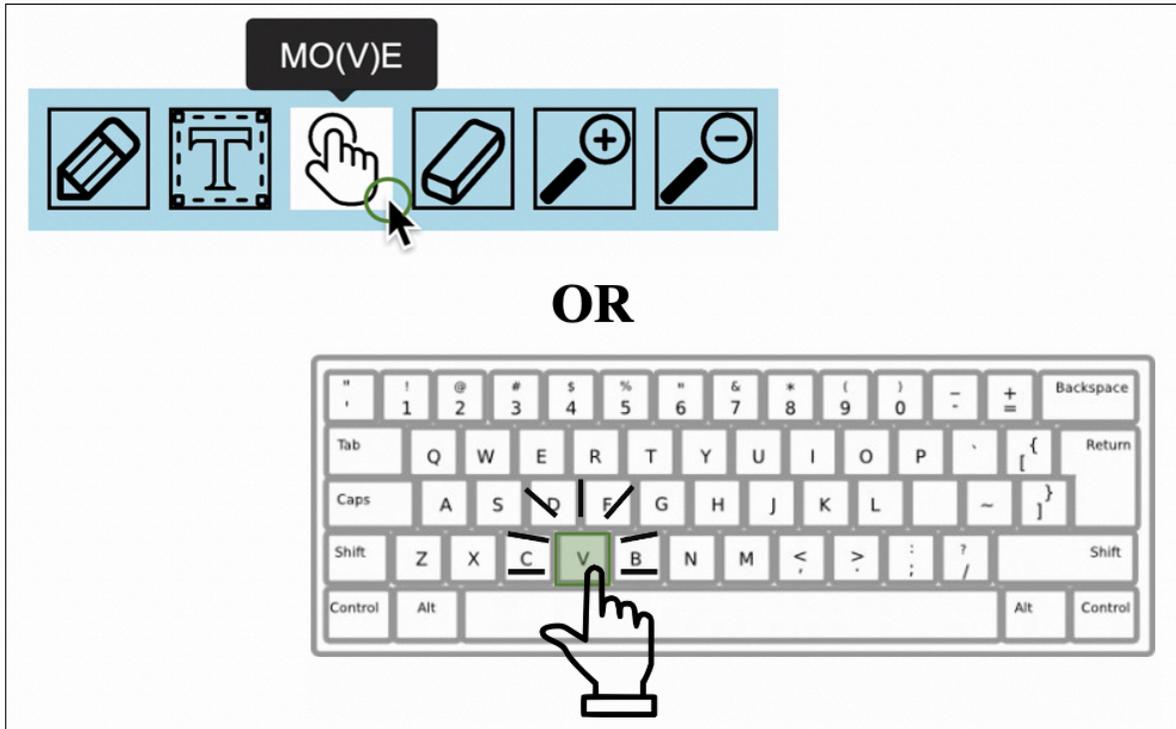
Deleting a Label

- ⇒ Select the label you want to delete. When you have selected a label, it will become highlighted in light blue.
- ⇒ Select Delete Label in the sidebar. The selected label will disappear from the canvas.

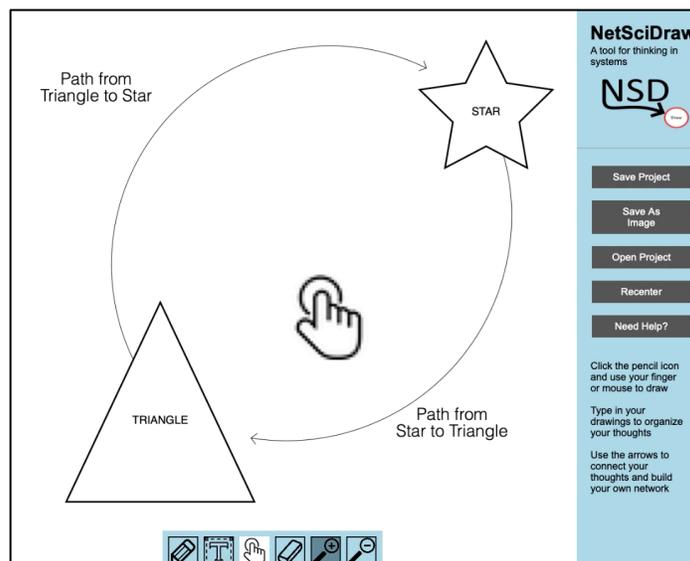


How to Move a Network or Individual Elements

⇒ First, select the Move function by clicking on the Move on the Toolbar OR by using the “V” key on your device’s keyboard.

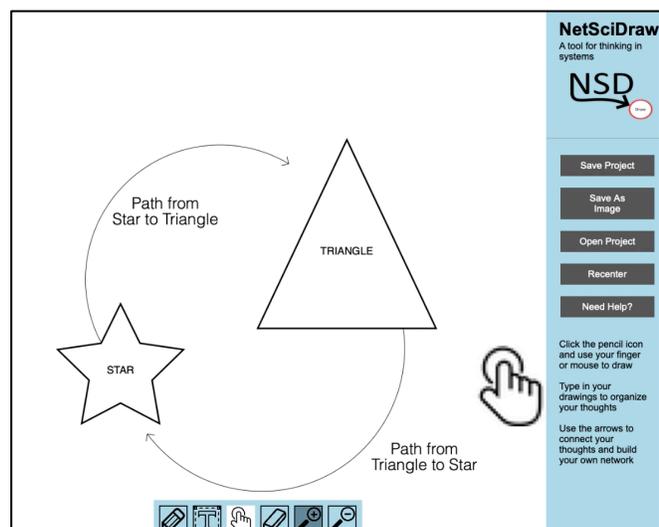
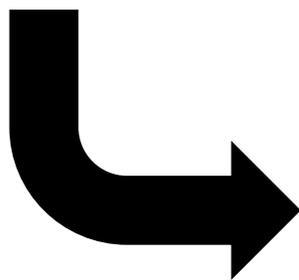
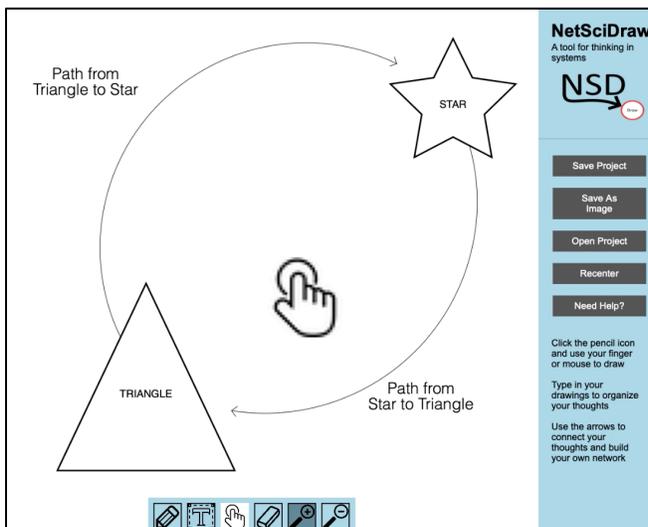


Once you have selected the move function, the cursor icon will change to a pointer finger with a circle.



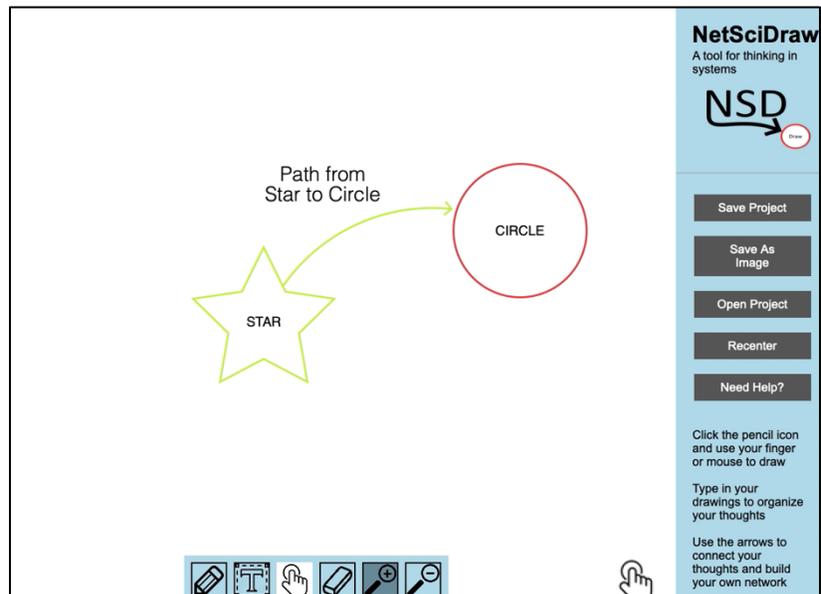
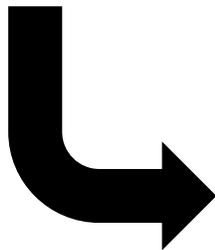
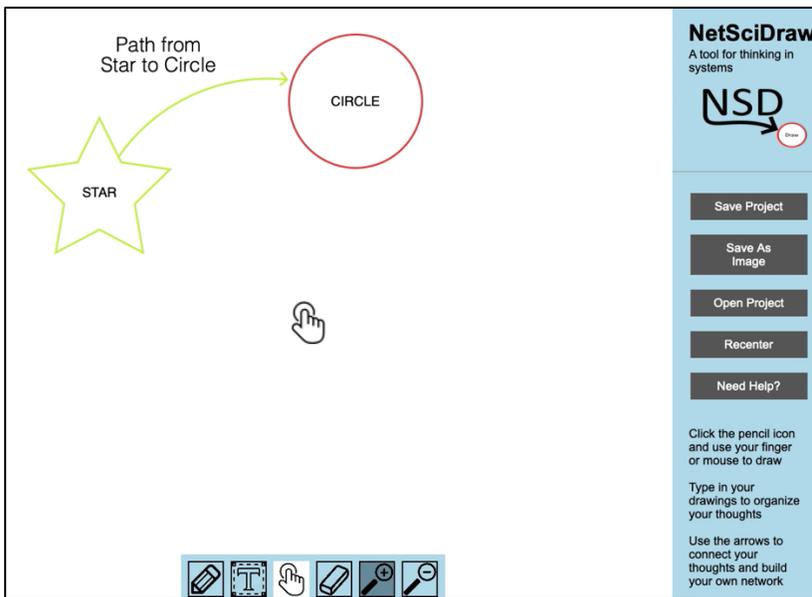
⇒ Then,

- ⇒ If you are using a non-touchscreen device, use your mouse or touchpad to click on the element you want to move (shape, arrow or text). Hold your left click and drag your cursor to the part of the canvas where you want to place the element; then, release your left click.
- ⇒ If you are using a touchscreen device, use your finger or stylus to select the element you want to move (shape, arrow or text). Drag your finger across your screen to the part of the canvas where you want to place the element.



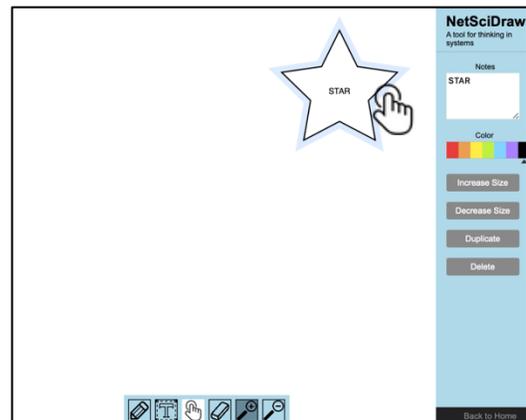
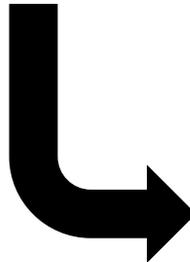
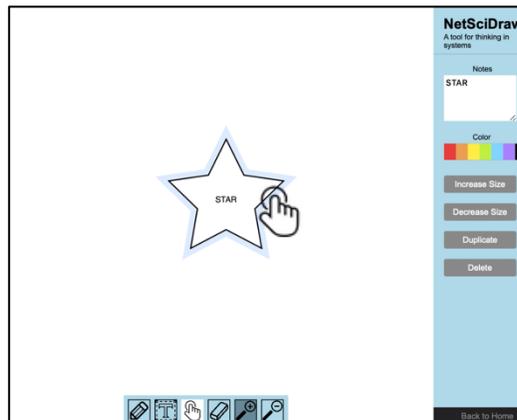
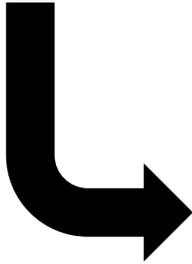
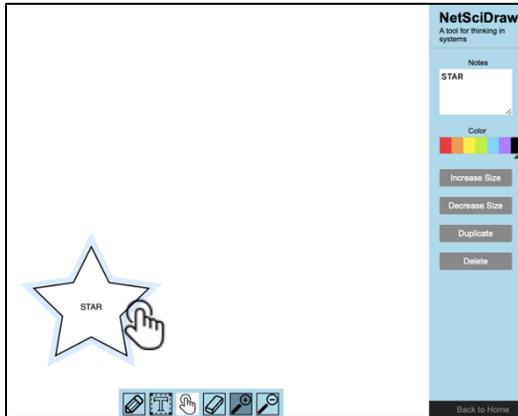
Moving Your Whole Network on Non-Touchscreen Devices

- ⇒ Use your mouse or touchpad to click on a blank portion of the canvas.
- ⇒ Hold your left click and drag your cursor in the direction you want your network to move.
- ⇒ Once you have positioned the network where you want it, release your left click.



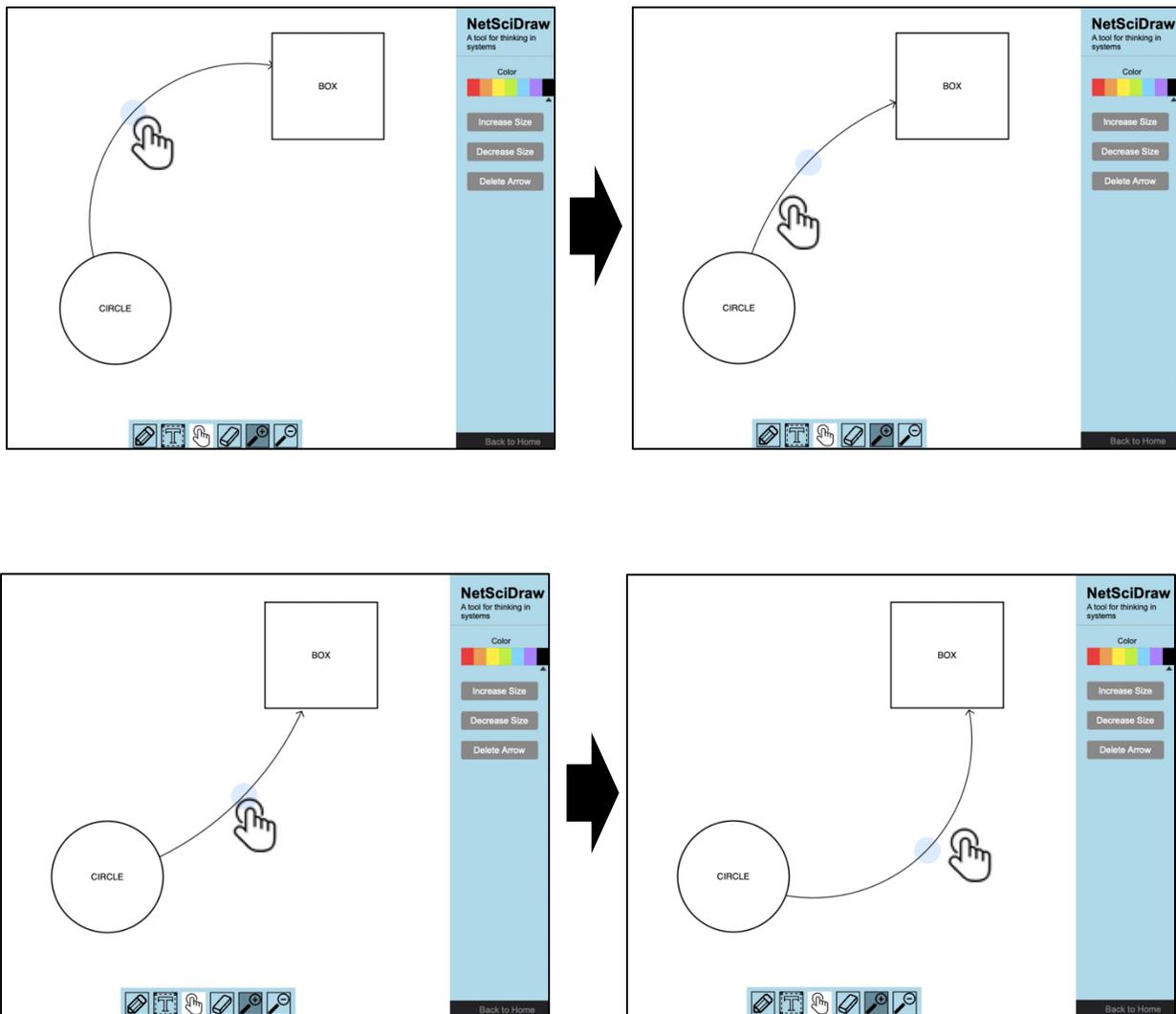
Moving Shapes on Non-Touchscreen Devices

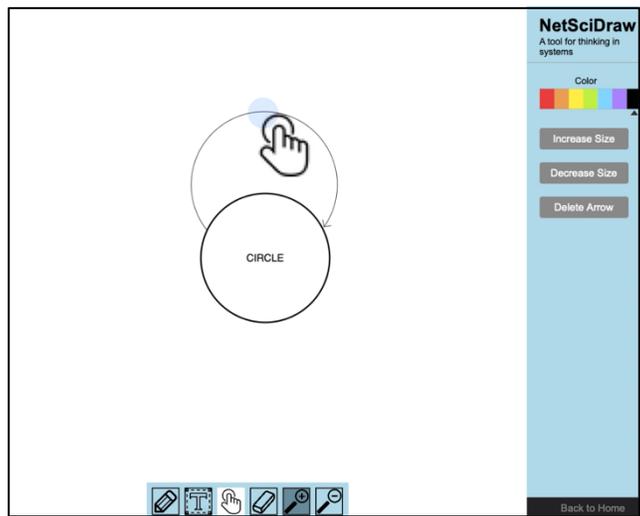
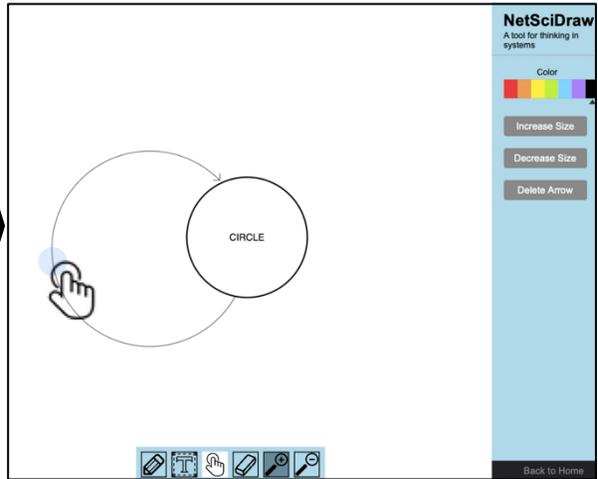
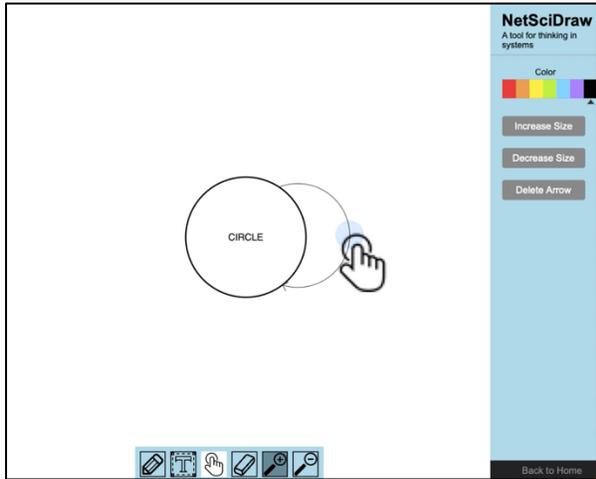
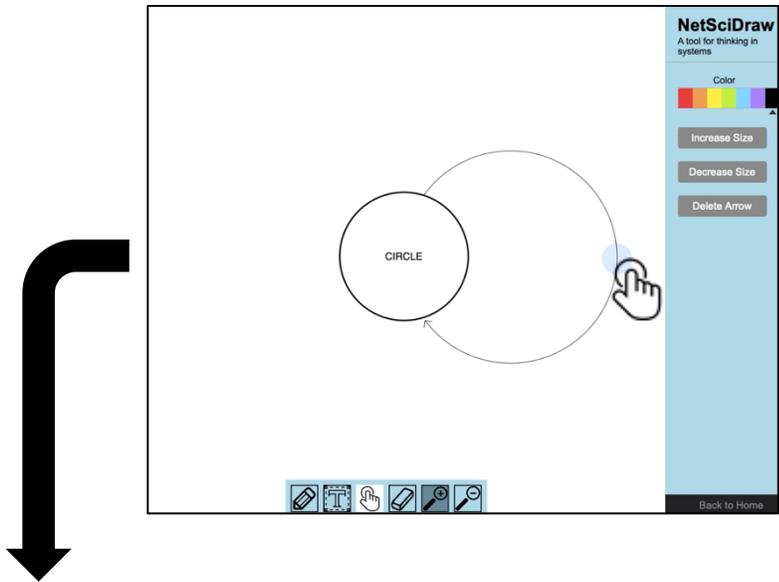
- ⇒ Use your mouse or touchpad to click on the shape you want to move.
- ⇒ Hold your left click and drag your cursor to the part of the canvas where you want to place the shape.
- ⇒ Once you have positioned the shape where you want it, release your left click.



Moving Arrows on Non-Touchscreen Devices

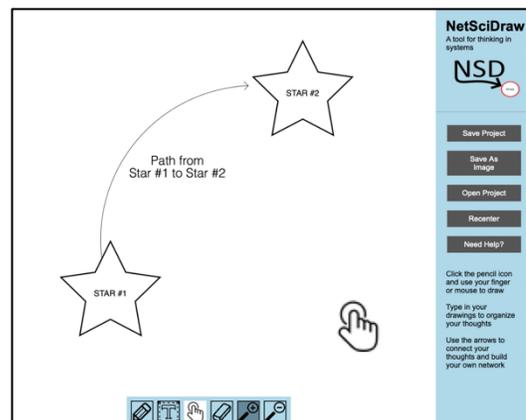
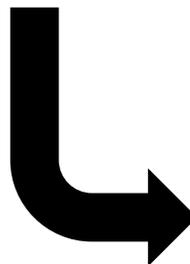
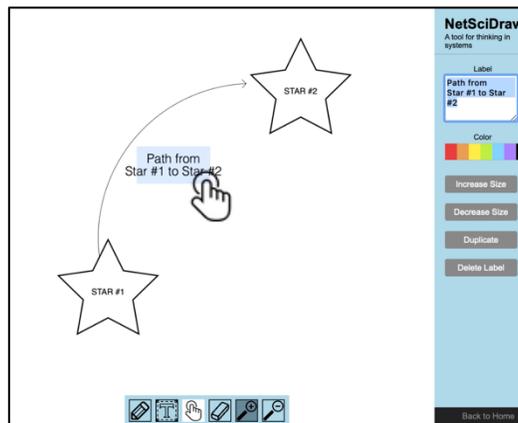
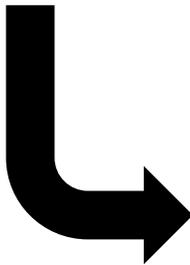
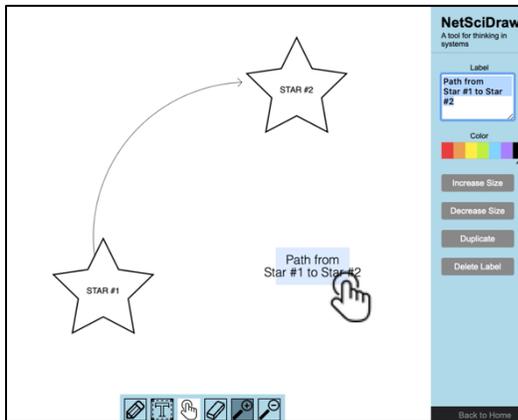
- ⇒ Use your mouse or touchpad to click on the arrow you want to move.
- ⇒ Hold your left click and drag your cursor to the part of the canvas where you want to place the arrow.
- ⇒ Once you have positioned the arrow where you want it, release your left click.





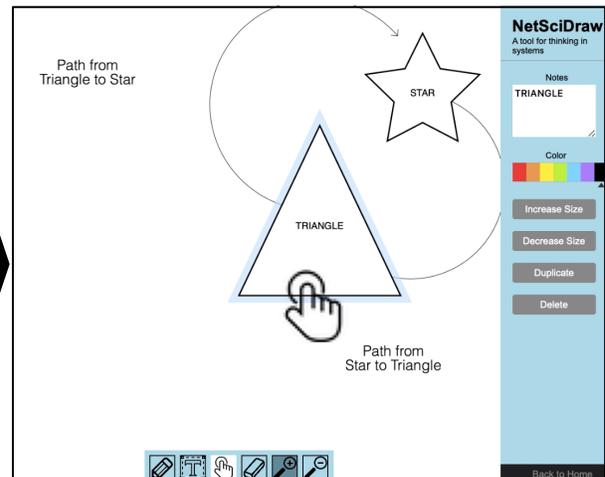
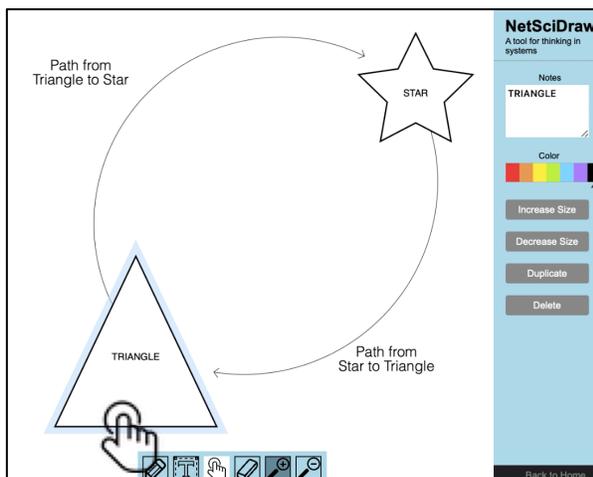
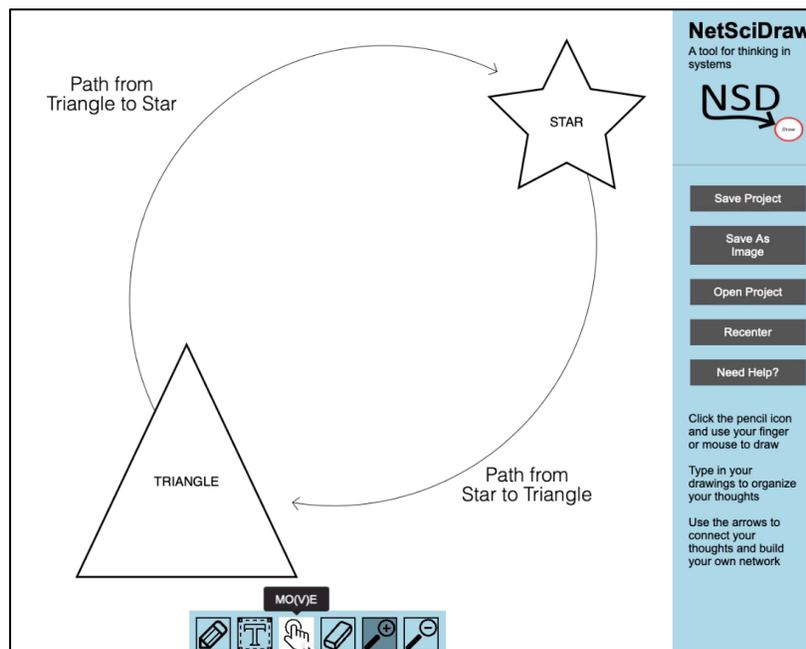
Moving Text on Non-Touchscreen Devices

- ⇒ Use your mouse or touchpad to click on the text (or label) you want to move.
- ⇒ Hold your left click and drag your cursor to the part of the canvas where you want to place the text.
- ⇒ Once you have positioned the text where you want it, release your left click.



Moving Network Elements on Non-Touchscreen Devices

- ⇒ Use your mouse or touchpad to click on the network (shape, arrow or label) you want to move.
- ⇒ Hold your left click and drag your cursor to the part of the canvas where you want to place the element.
- ⇒ Once you have positioned the element where you want it, release your left click.



NetSciDraw
A tool for thinking in systems

Notes
STAR

Color

Increase Size
Decrease Size
Duplicate
Delete

Path from Triangle to Star

TRIANGLE

Path from Star to Triangle

Back to Home

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A tool for thinking in systems

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Label
Path from Star to Triangle

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Color

Increase Size
Decrease Size
Duplicate
Delete Label

Path from Star to Triangle

TRIANGLE

Path from Triangle to Star

Back to Home



Save Project

Save As Image

Open Project

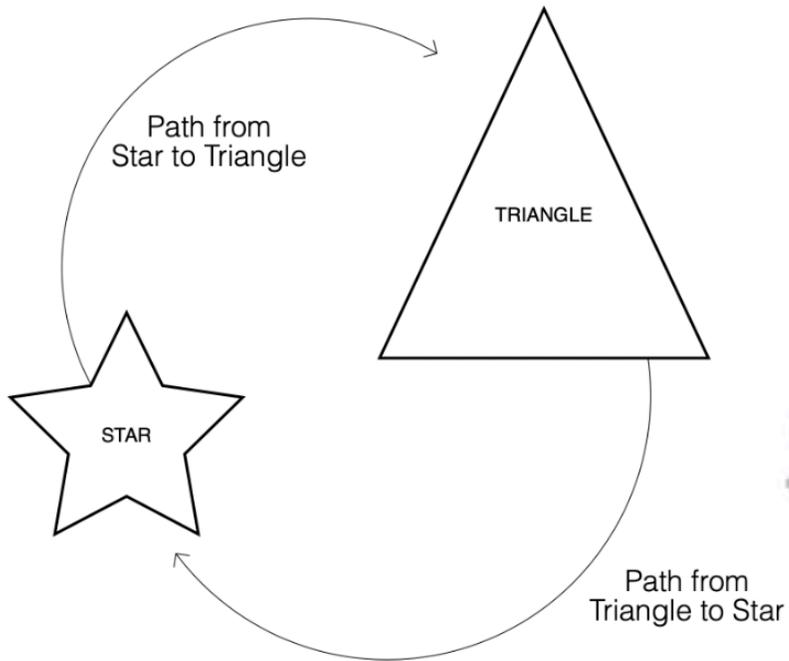
Recenter

Need Help?

Click the pencil icon and use your finger or mouse to draw

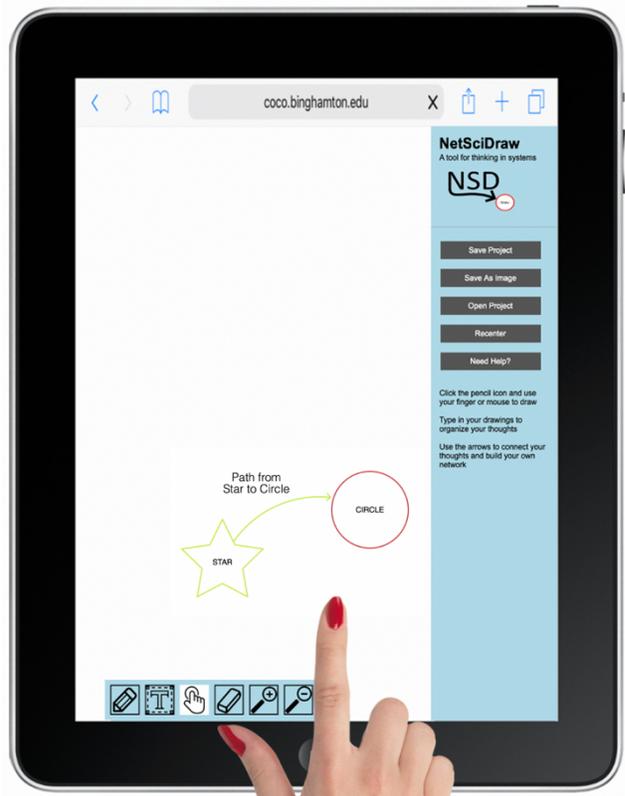
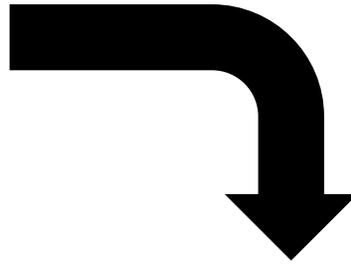
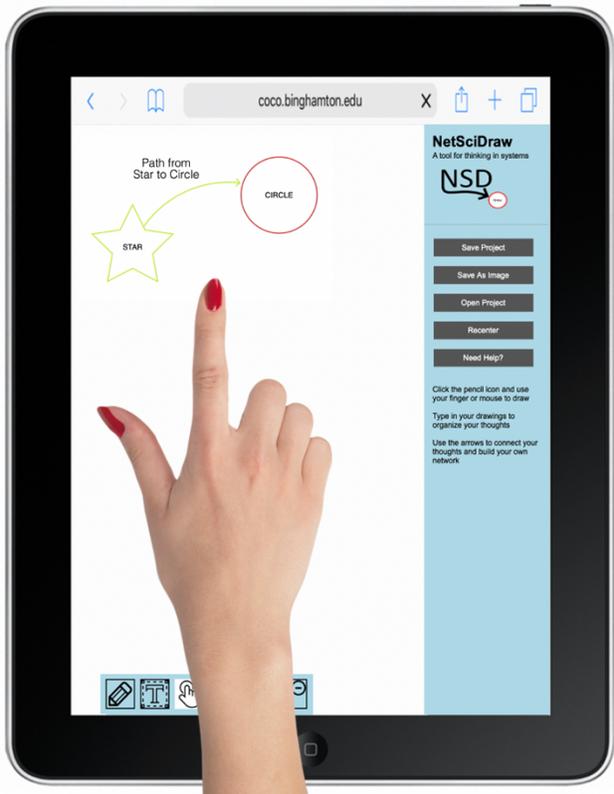
Type in your drawings to organize your thoughts

Use the arrows to connect your thoughts and build your own network



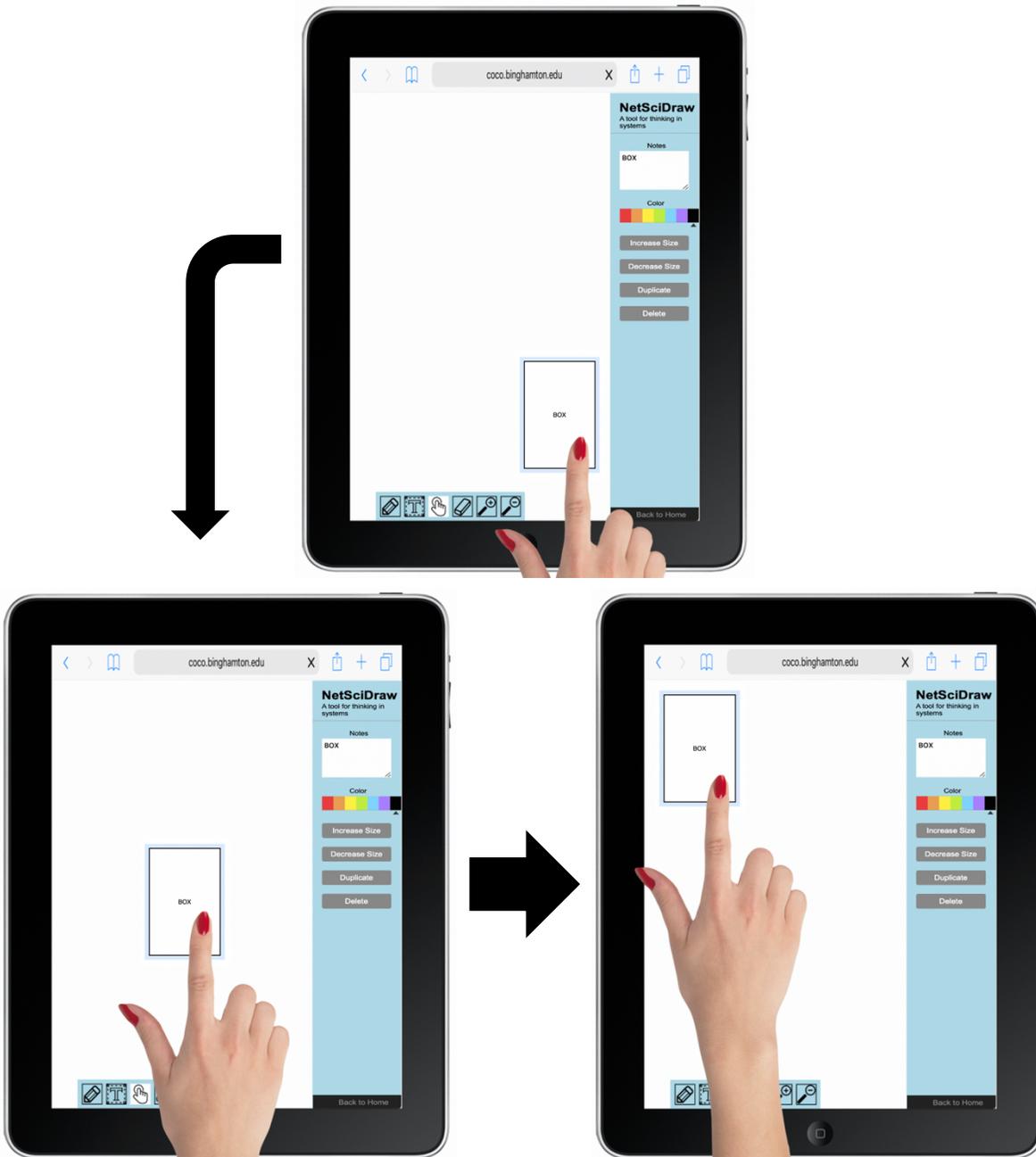
Moving Your Whole Network on Touchscreen Devices

- ⇒ Use your finger or stylus to touch a blank portion of the canvas.
- ⇒ Drag your finger or stylus across the screen in the direction you want your network to move.
- ⇒ Once you have positioned the network where you want it, remove your finger or stylus from the screen.



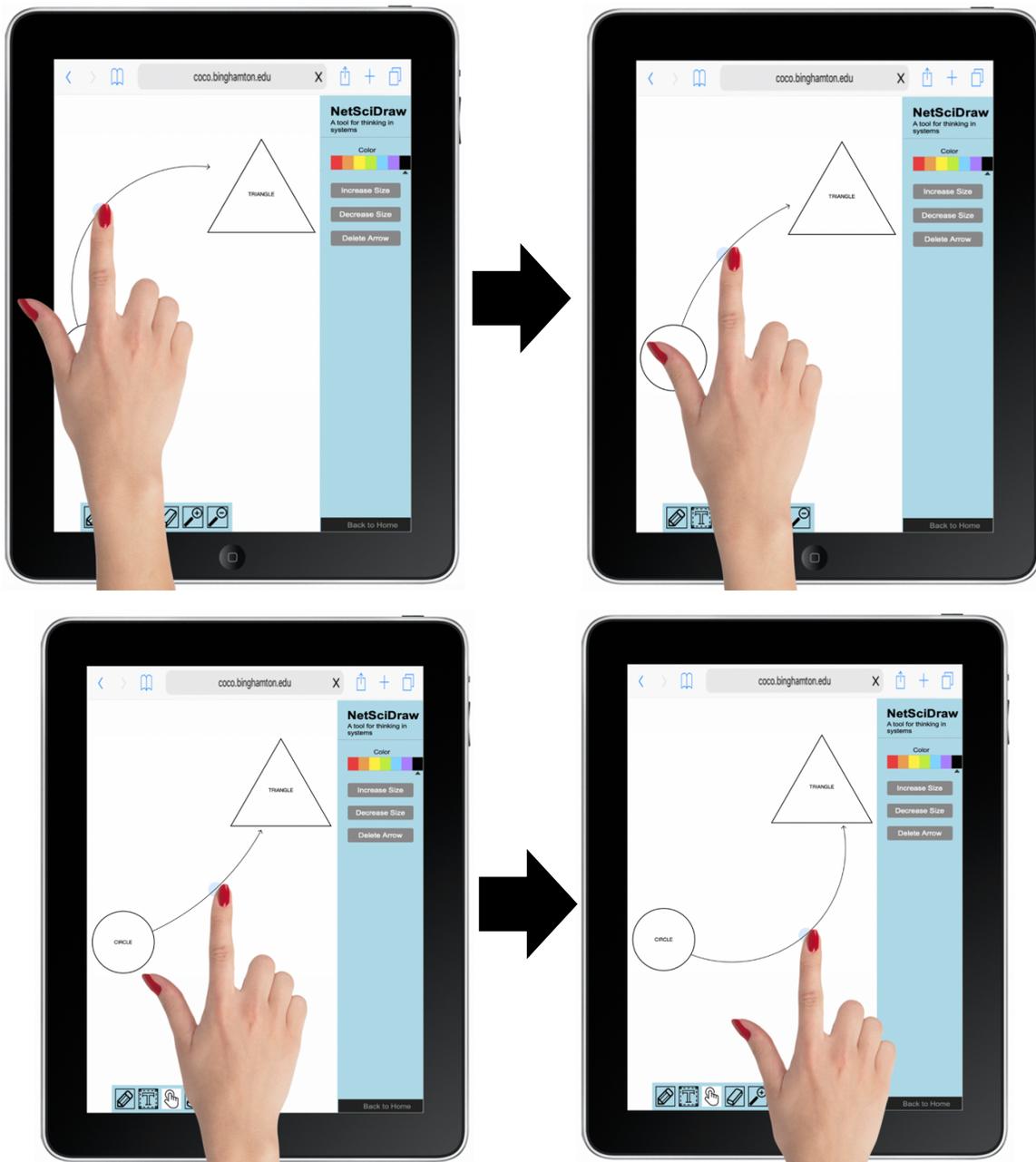
Moving Shapes on Touchscreen Devices

- ⇒ Use your finger or stylus to touch the shape you want to move.
- ⇒ Drag your finger or stylus across the screen to the part of the canvas where you want to place the shape.
- ⇒ Once you have positioned the shape where you want it, remove your finger or stylus from the screen.



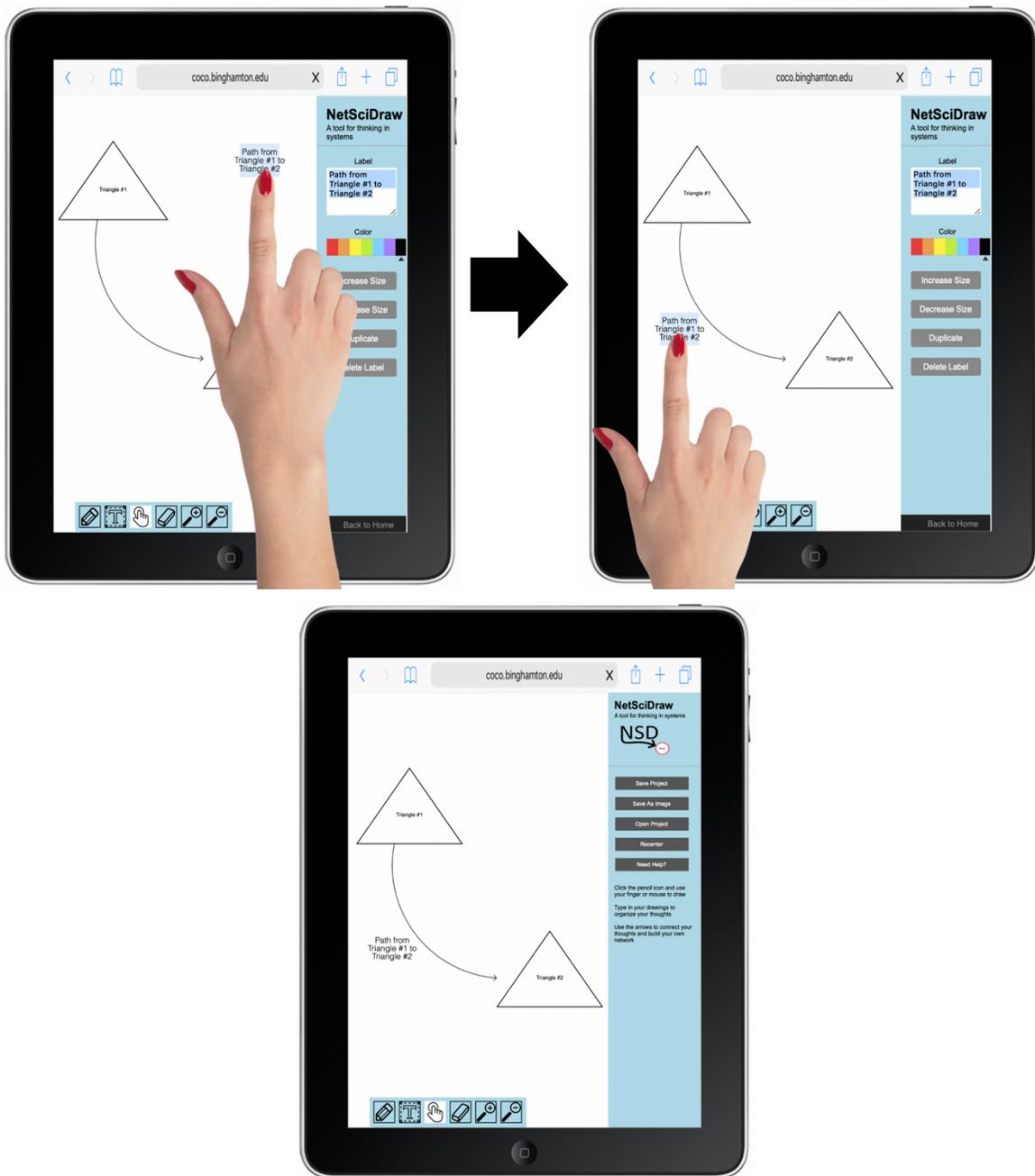
Moving Arrows on Non-Touchscreen Devices

- ⇒ Use your finger or stylus to touch the arrow you want to move.
- ⇒ Drag your finger or stylus across the screen to the part of the canvas where you want to place the arrow.
- ⇒ Once you have positioned the arrow where you want it, remove your finger or stylus from the screen.



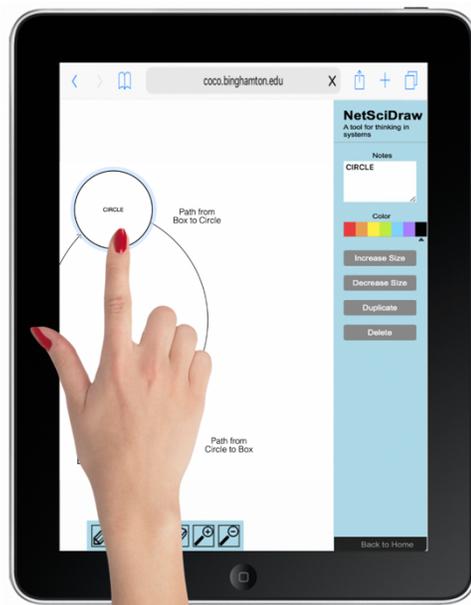
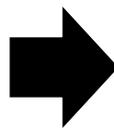
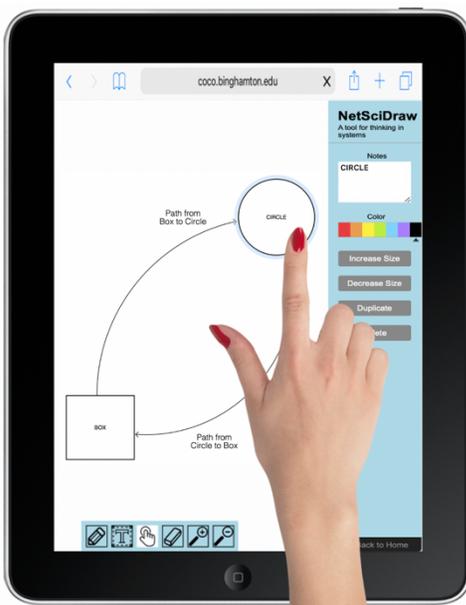
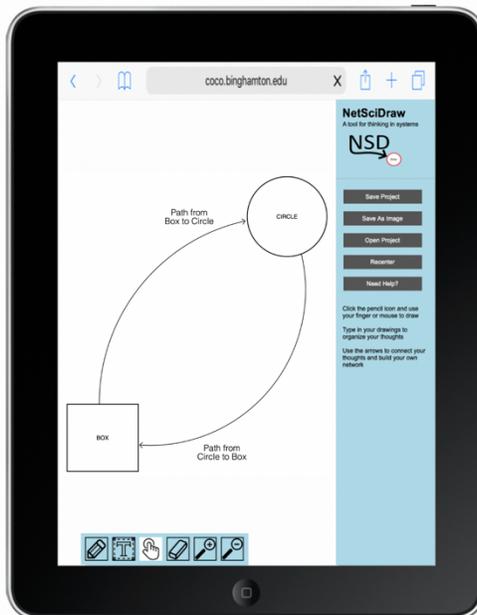
Moving Text on Non-Touchscreen Devices

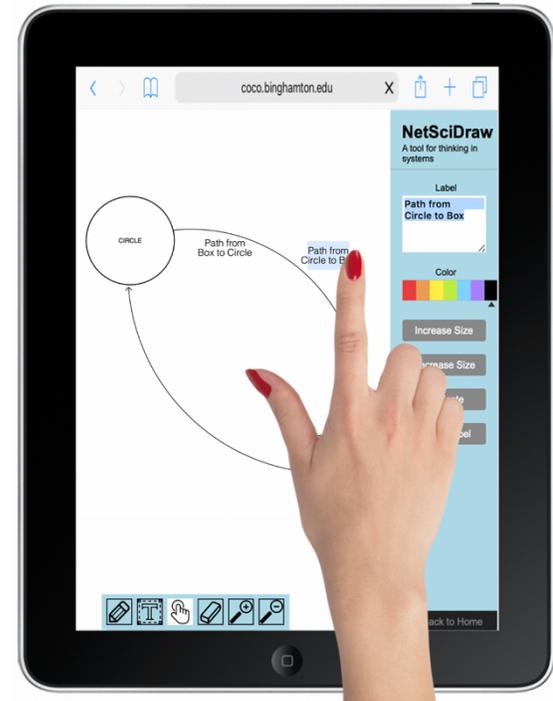
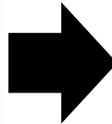
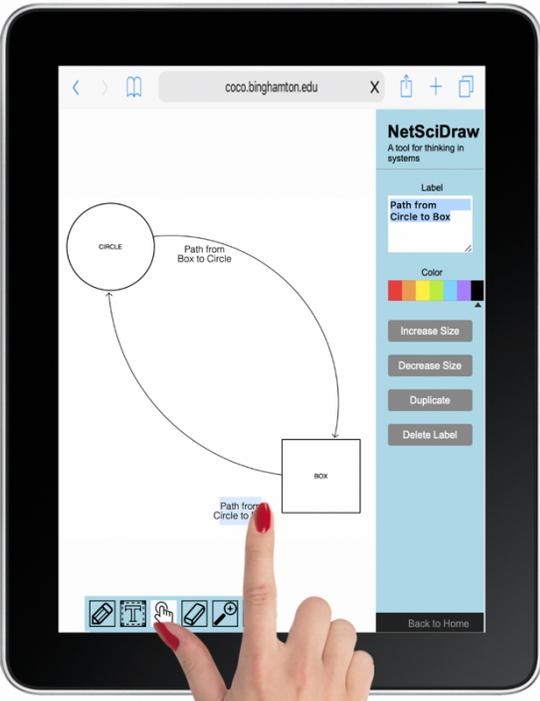
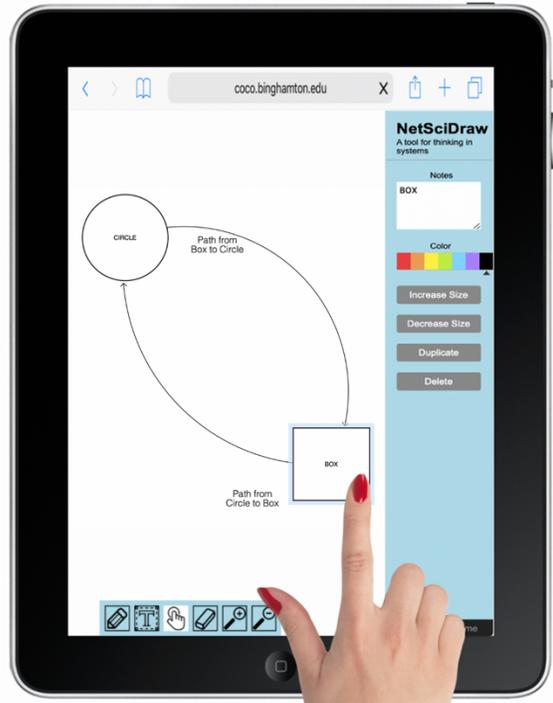
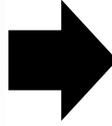
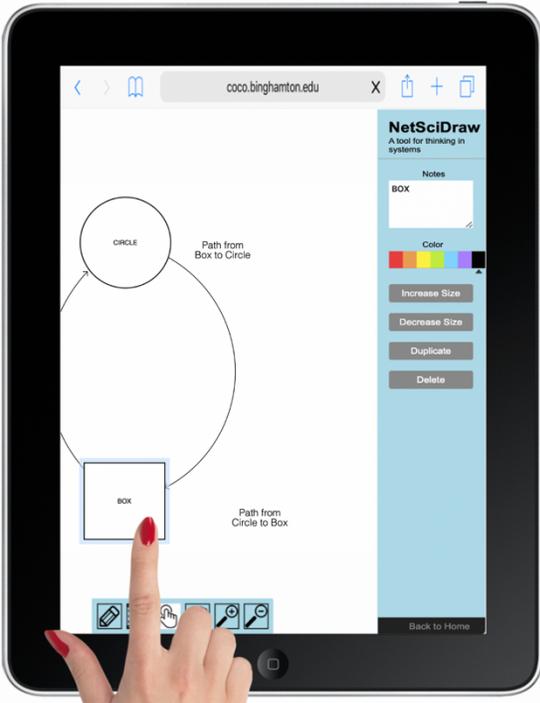
- ⇒ Use your finger or stylus to touch the text (or label) you want to move.
- ⇒ Drag your finger or stylus across the screen to the part of the canvas where you want to place the text.
- ⇒ Once you have positioned the text where you want it, remove your finger or stylus from the screen.

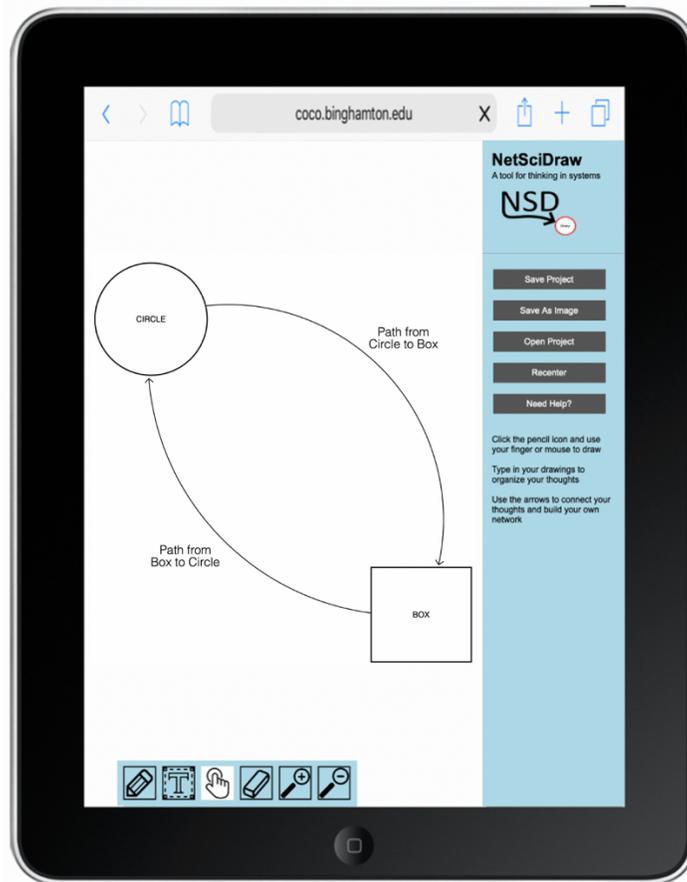
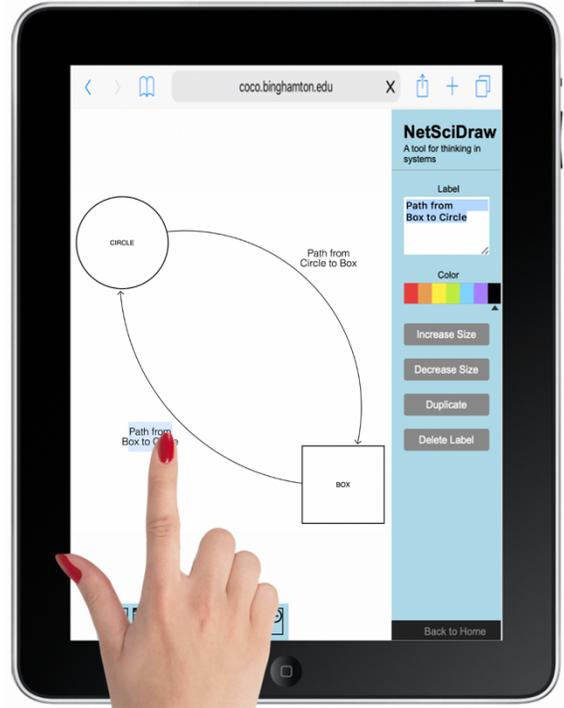
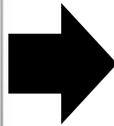
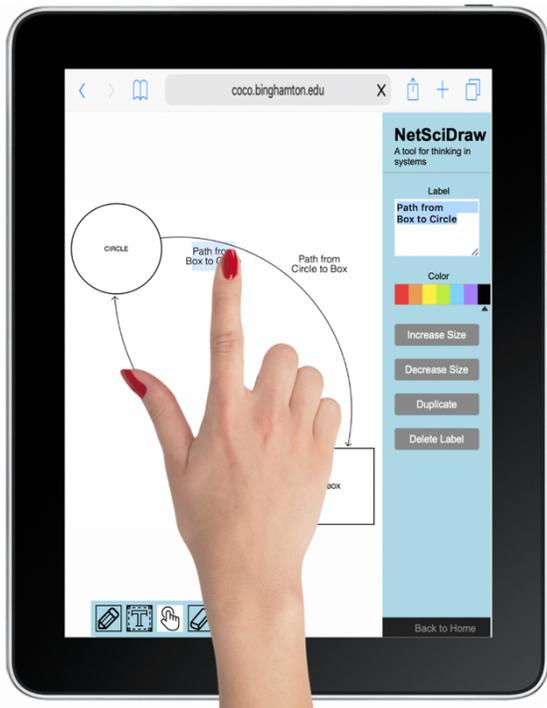


Moving Network Elements on Touchscreen Devices

- ⇒ Use your finger or stylus to touch the network (shape, arrow or label) you want to move.
- ⇒ Drag your finger or stylus across the screen to the part of the canvas where you want to place the element.
- ⇒ Once you have positioned the element where you want it, remove your finger or stylus from the screen.

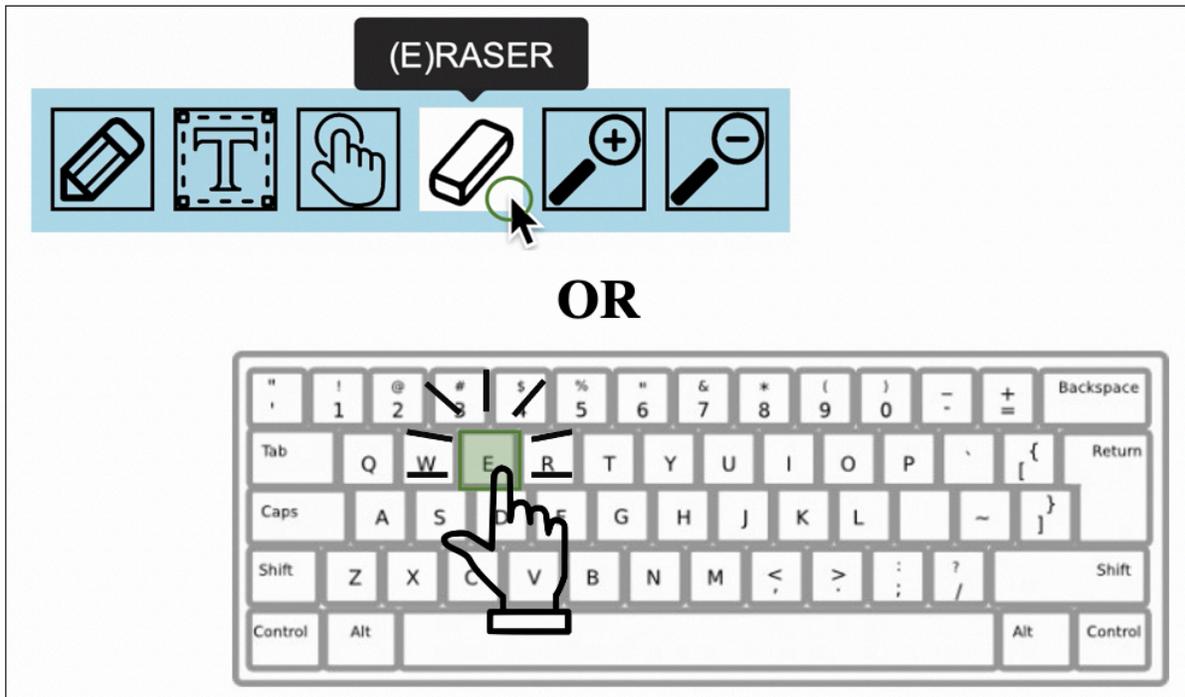




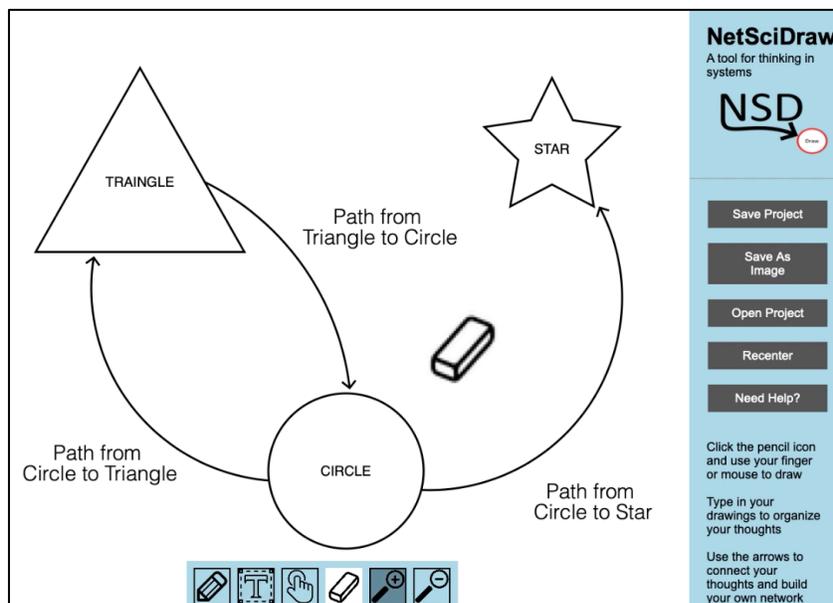


How to Erase Network Elements

⇒ First, select the Eraser function by clicking on the Eraser on the Toolbar OR by using the “E” key on your device’s keyboard.

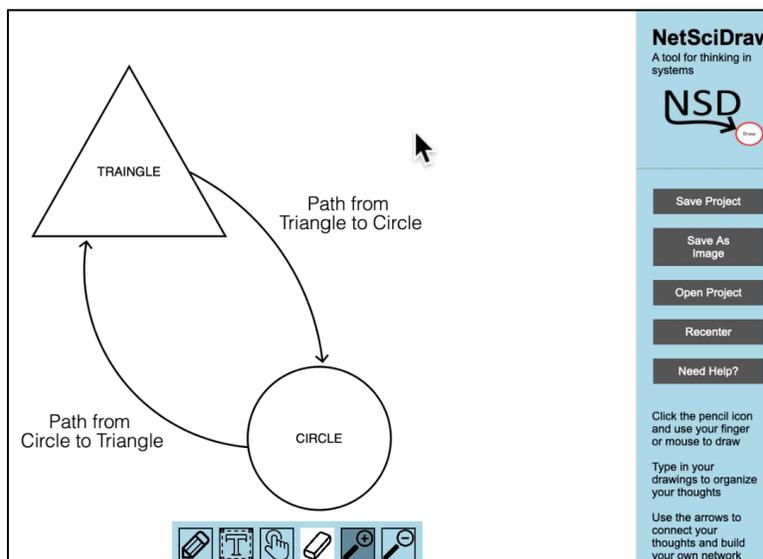
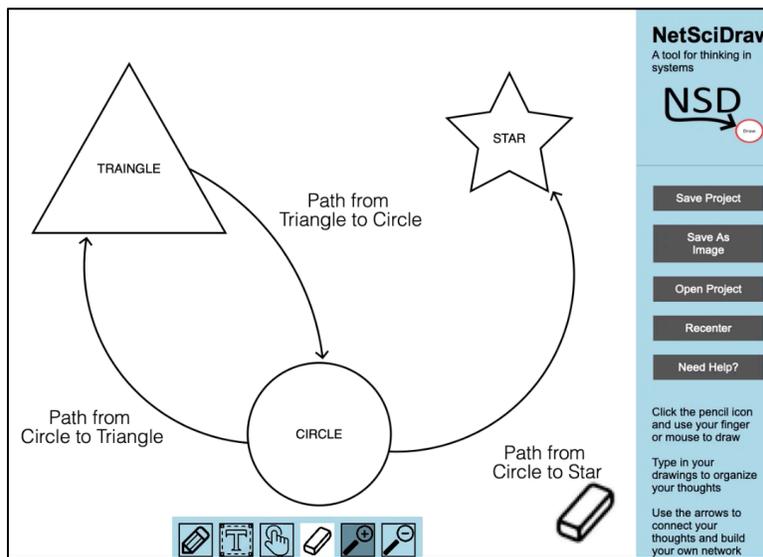


Once you have selected the move function, the cursor icon will change to an eraser.



⇒ Then,

- ⇒ If you are using a non-touchscreen device, use your mouse or touchpad to hold left click while dragging your cursor over the element (shape, arrow or text) you wish to erase.
- ⇒ If you are using a touchscreen device, drag your finger or stylus over the element (shape, arrow or text) you wish to erase.

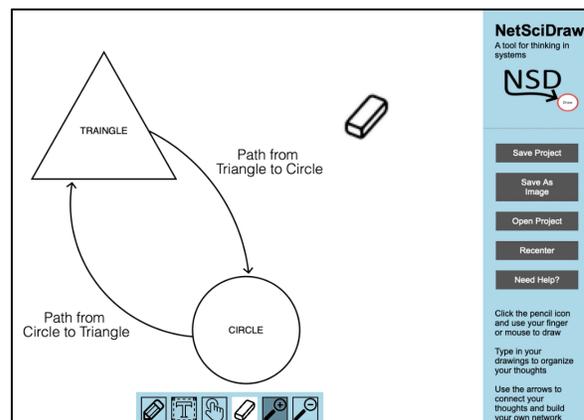
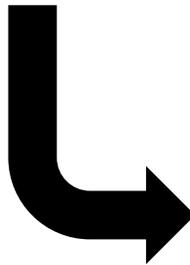
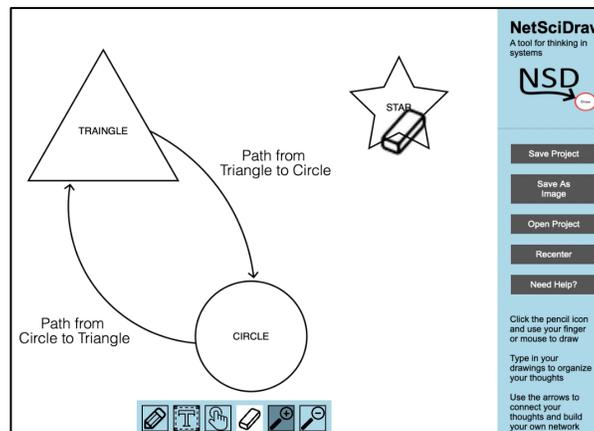
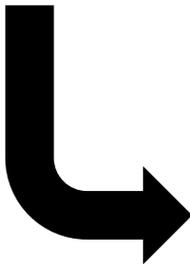
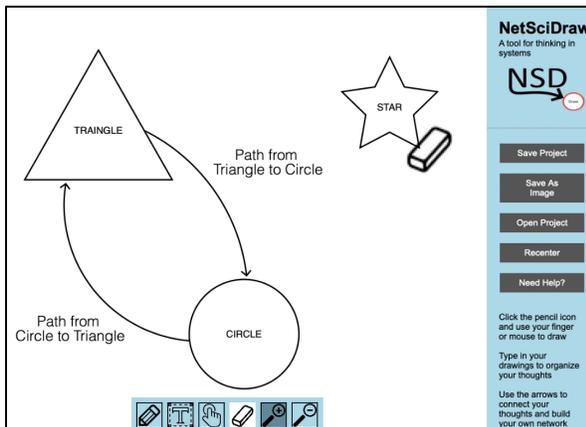


Erasing Shapes on Non-Touchscreen Devices

⇒ Use your mouse or touchpad to hold left click while dragging your cursor over the shape you wish to erase.

⇒ Release your left click once the shape has disappeared from the canvas.

*** **NOTE:** If you erase a shape with an arrow or arrows connected to it, the arrows will also be erased.



NetSciDraw
A tool for thinking in systems

NSD

Save Project

Save As Image

Open Project

Recenter

Need Help?

Click the pencil icon and use your finger or mouse to draw

Type in your drawings to organize your thoughts

Use the arrows to connect your thoughts and build your own network

TRAINGLE

CIRCLE

Path from Circle to Triangle



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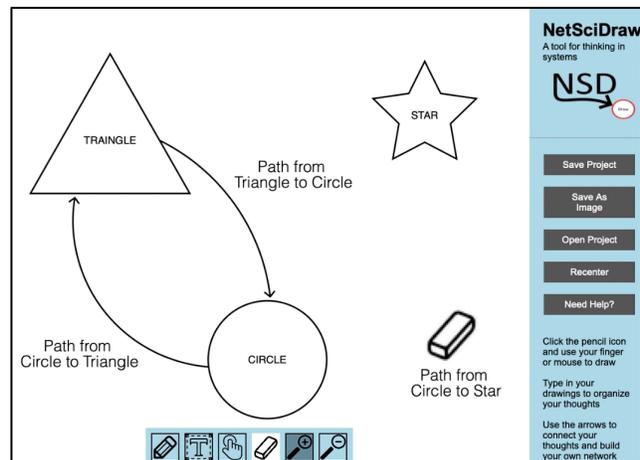
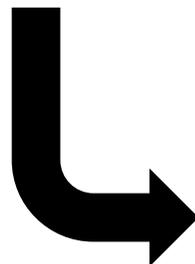
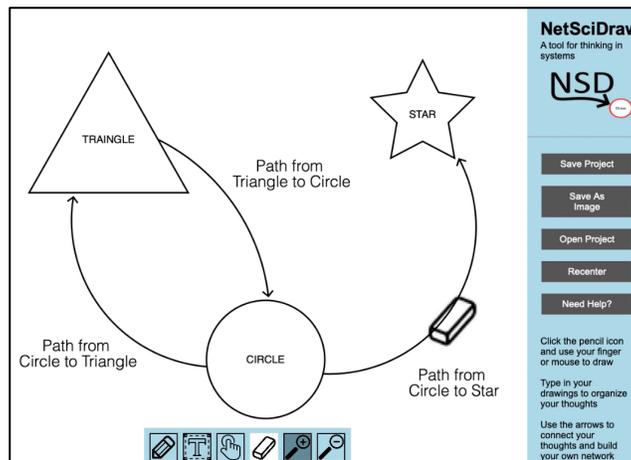
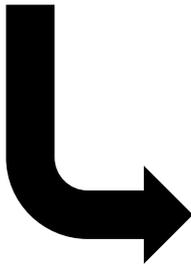
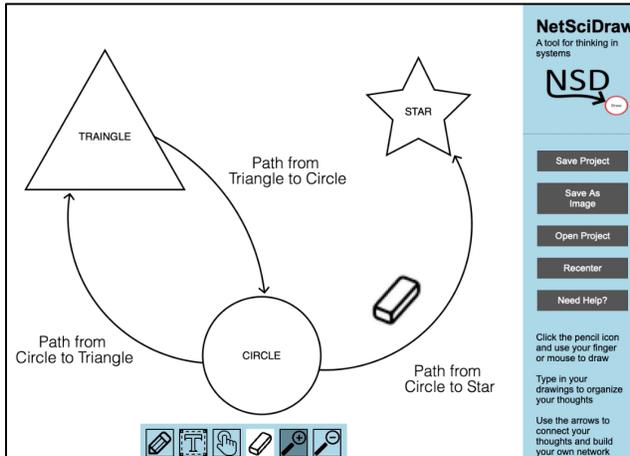
TRAINGLE

Path from Circle to Triangle

Erasing Arrows on Non-Touchscreen Devices

⇒ Use your mouse or touchpad to hold left click while dragging your cursor over the arrow you wish to erase.

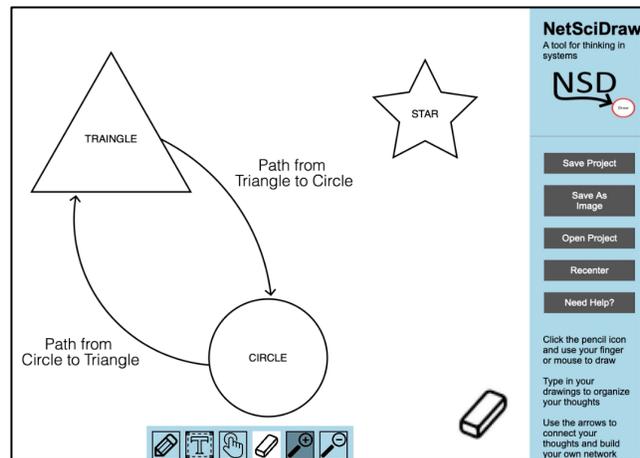
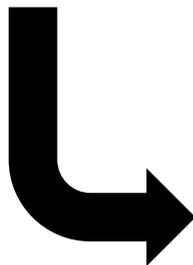
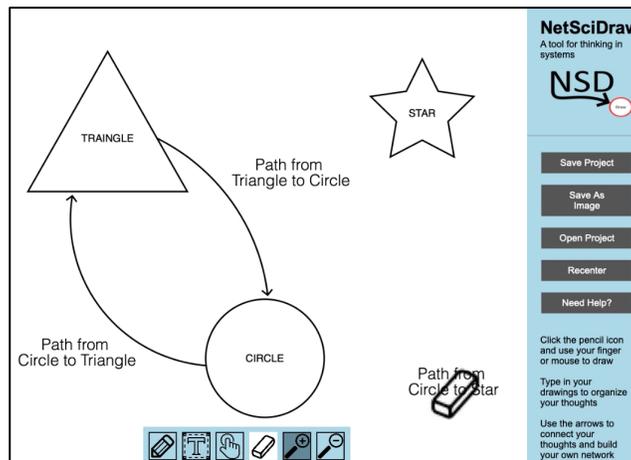
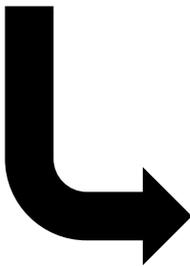
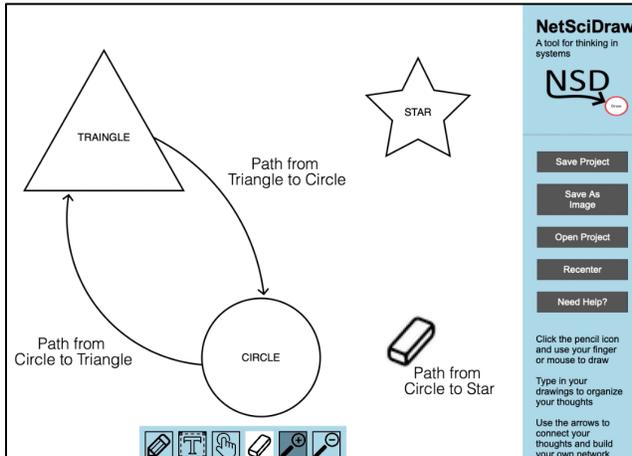
⇒ Release your left click once the arrow has disappeared from the canvas.



Erasing Text on Non-Touchscreen Devices

⇒ Use your mouse or touchpad to hold left click while dragging your cursor over the text/label you wish to erase.

⇒ Release your left click once the text/label has disappeared from the canvas.

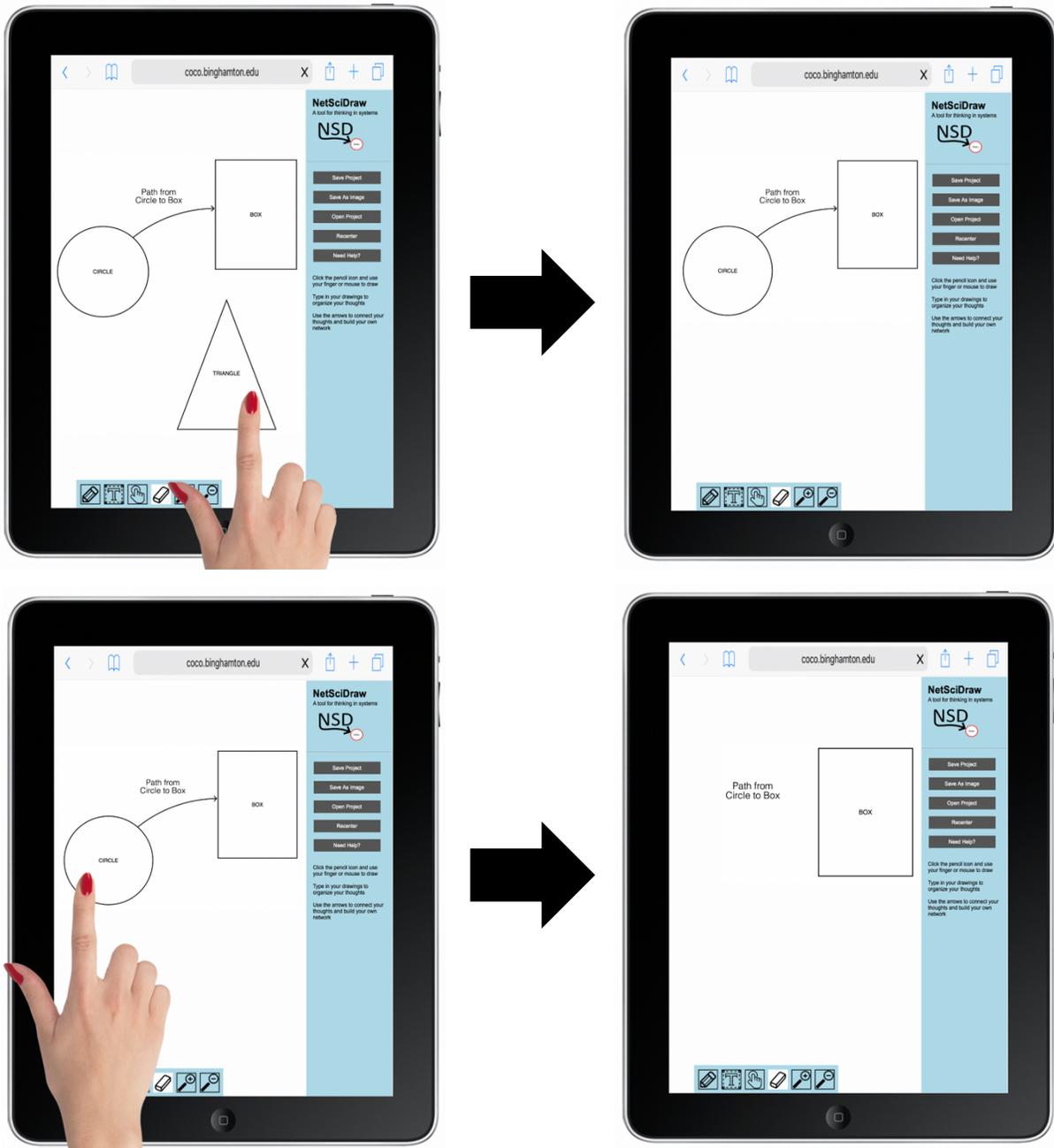


Erasing Shapes on Touchscreen Devices

⇒ Drag your finger or stylus over the shape you wish to erase.

⇒ Remove your finger or stylus from the screen once the shape has disappeared from the canvas.

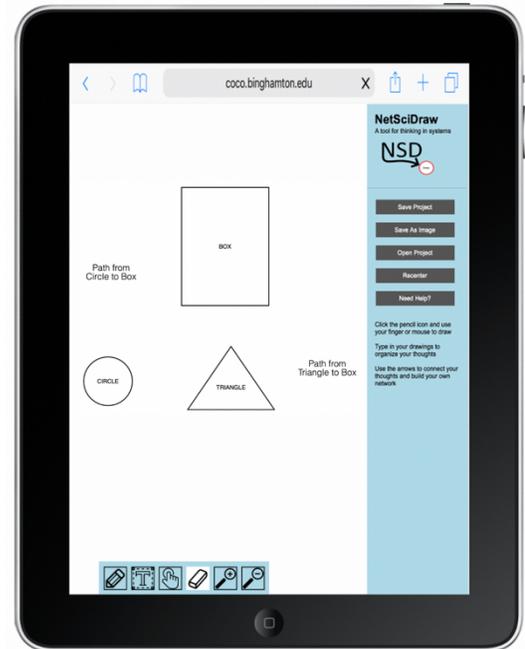
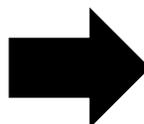
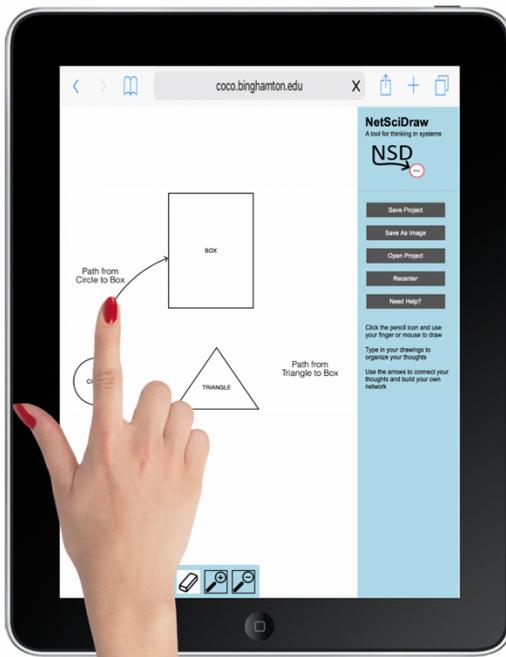
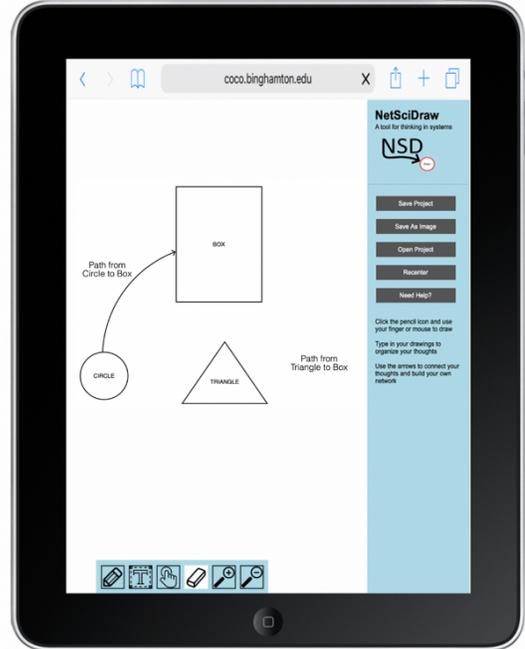
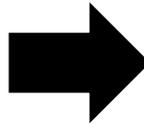
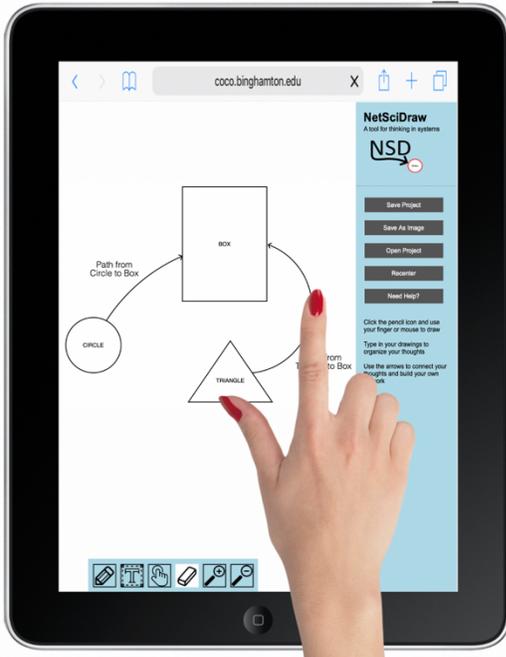
*** **NOTE:** If you erase a shape with an arrow or arrows connected to it, the arrows will also be erased.



Erasing Arrows on Touchscreen Devices

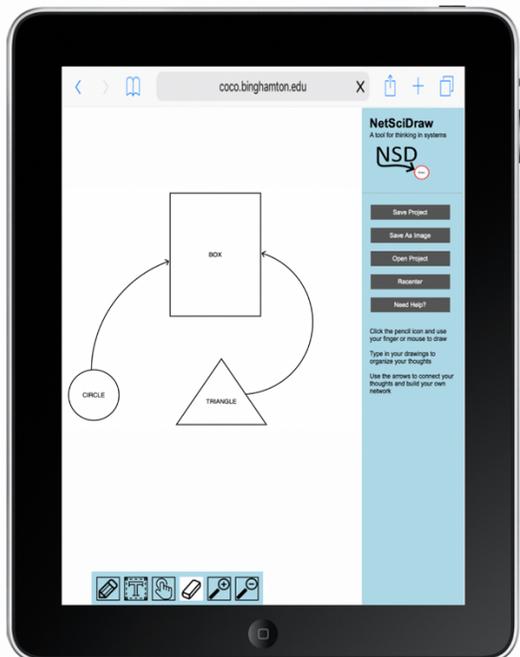
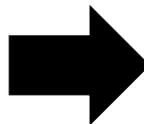
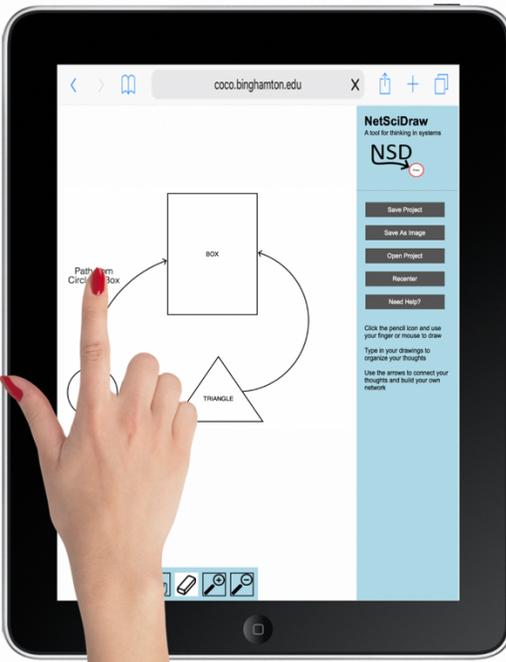
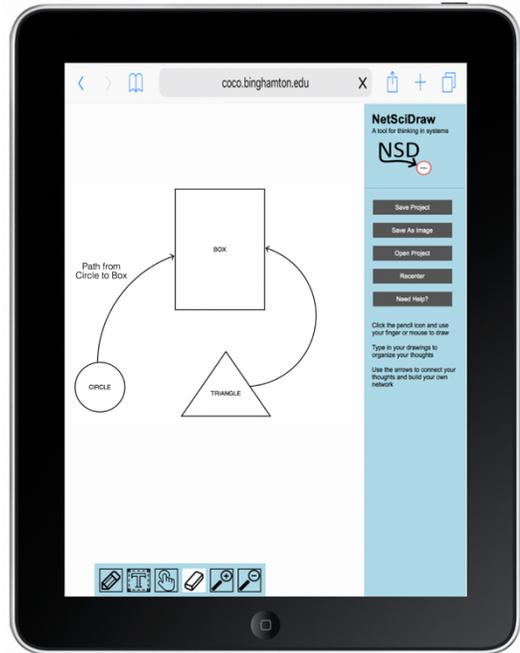
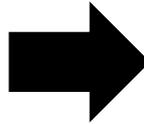
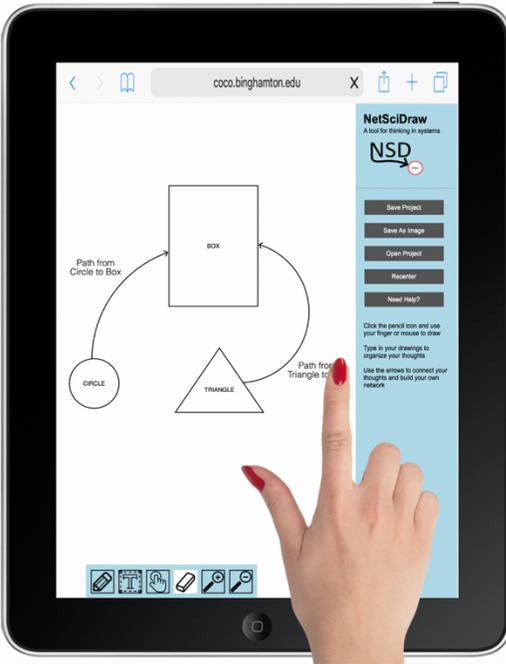
⇒ Drag your finger or stylus over the arrow you wish to erase.

⇒ Remove your finger or stylus from the screen once the arrow has disappeared from the canvas.



Erasing Text on Touchscreen Devices

- ⇒ Drag your finger or stylus over the text or label you wish to erase.
- ⇒ Remove your finger or stylus from the screen once the text/label has disappeared from the canvas.

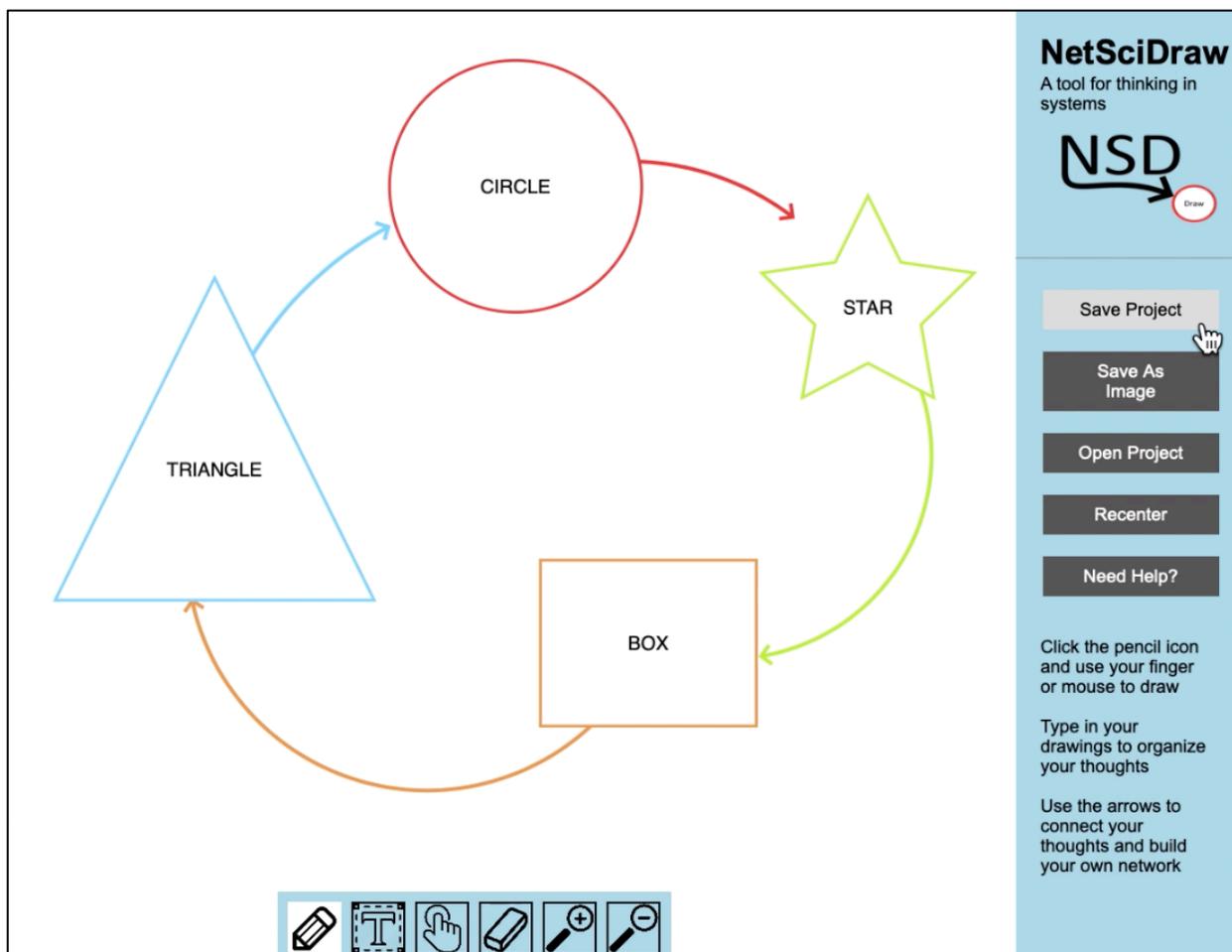


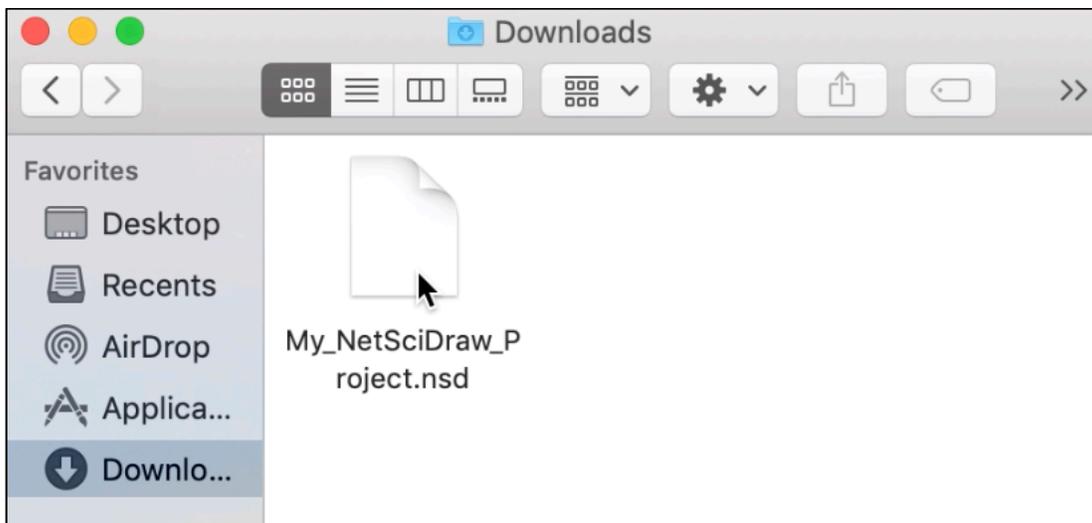
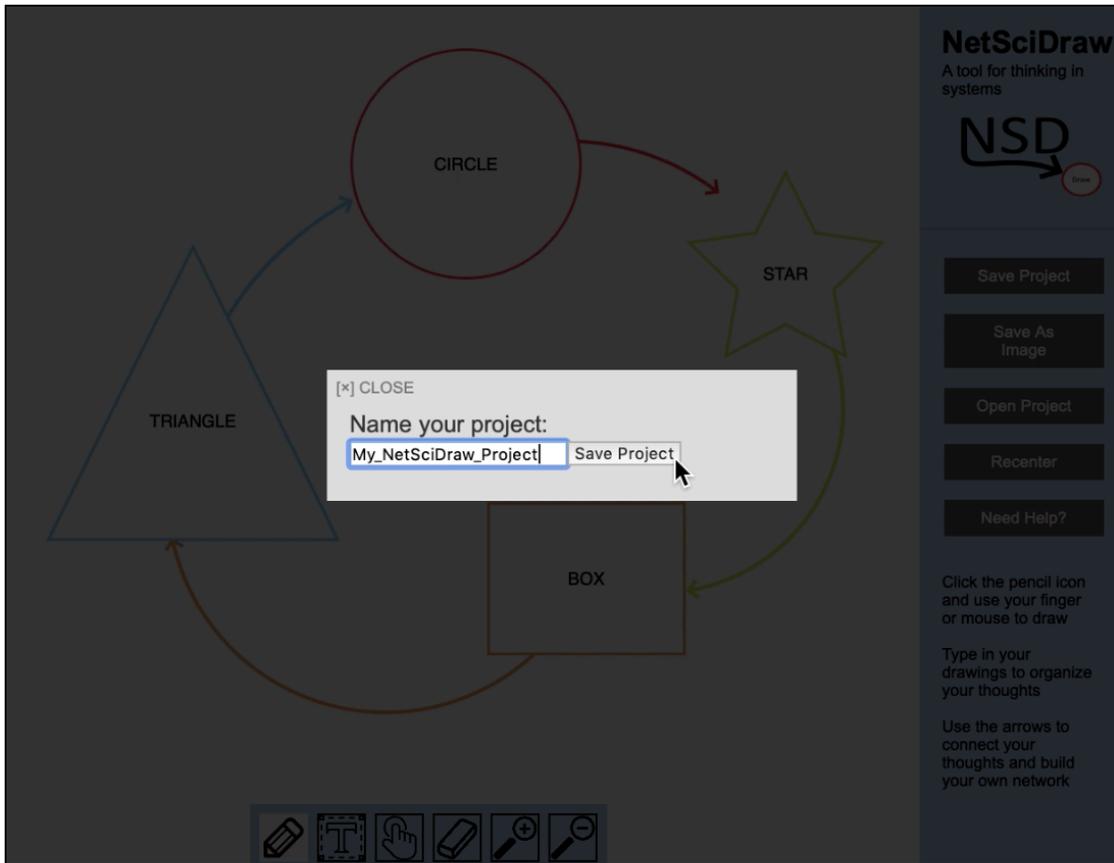
How to Save Your NetSciDraw Project (.nsd File)

⇒ Select the [Save Project](#) in the sidebar.

⇒ Type a name for your project in the pop-up box and select [Save Project](#).

*** **NOTE:** Your project will be saved as a .nsd file. Therefore, you will be able to open and/or edit your project at a later date using the NetSciDraw application. Your .nsd file will be saved to your device's Downloads folder.



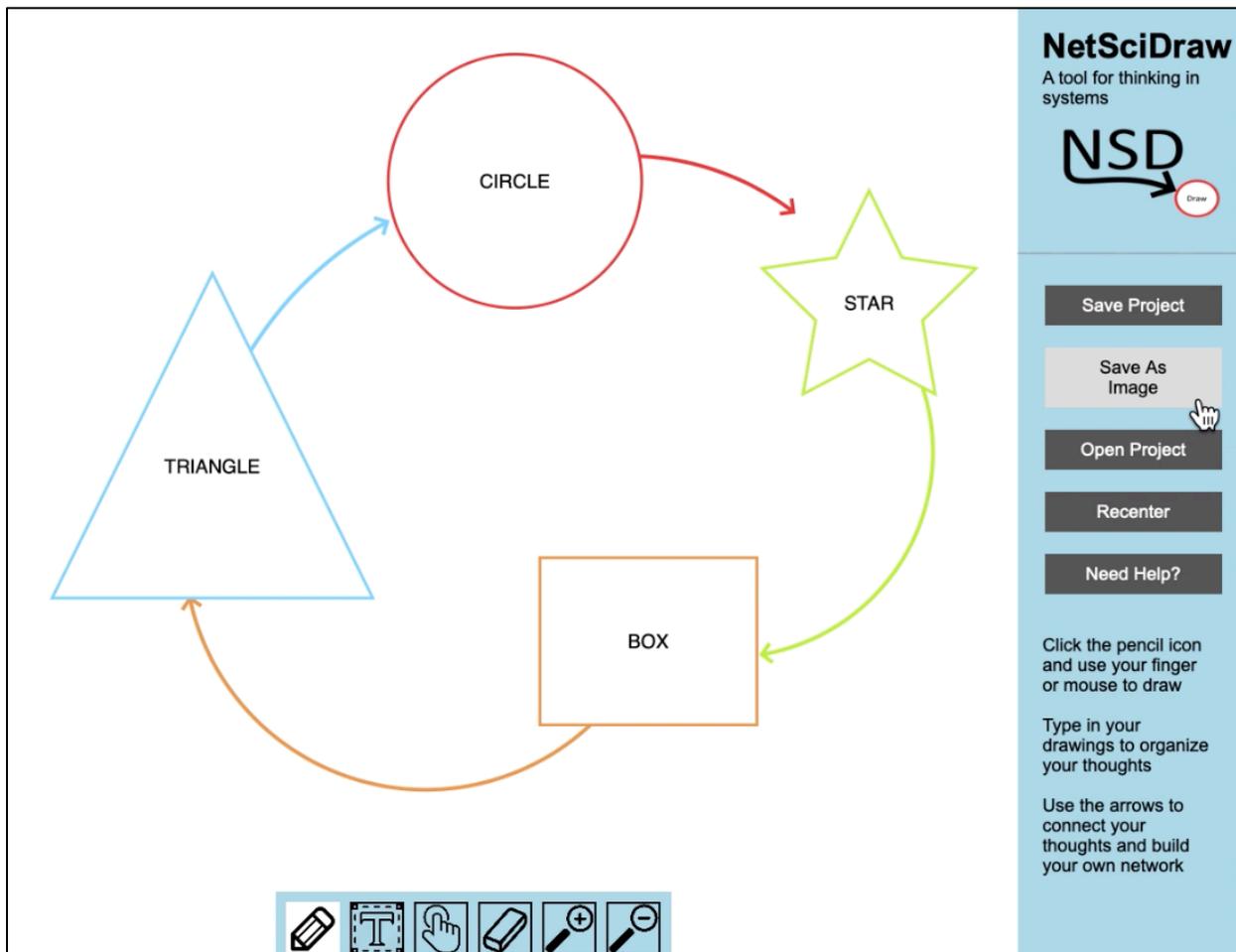


How to Save Your NetSciDraw Project as an Image

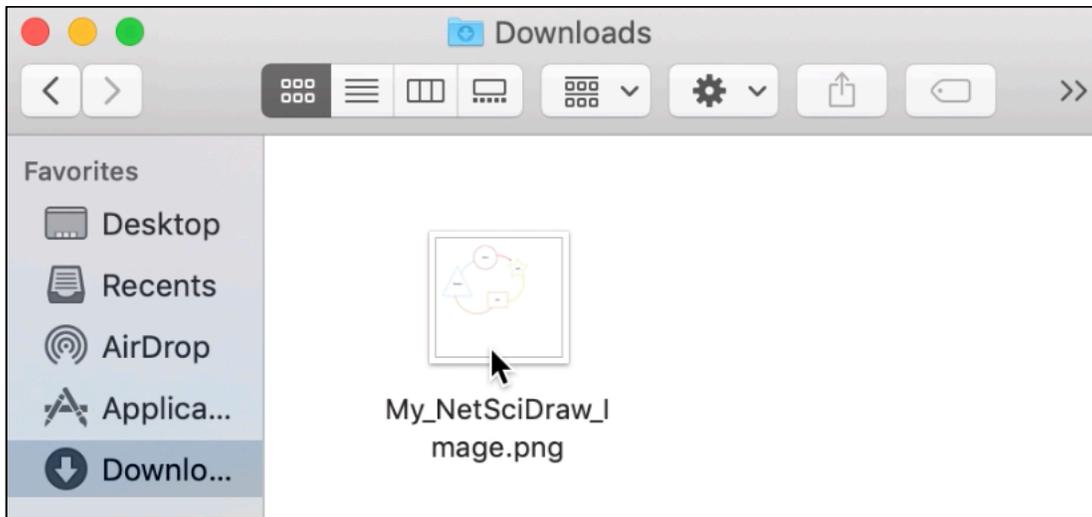
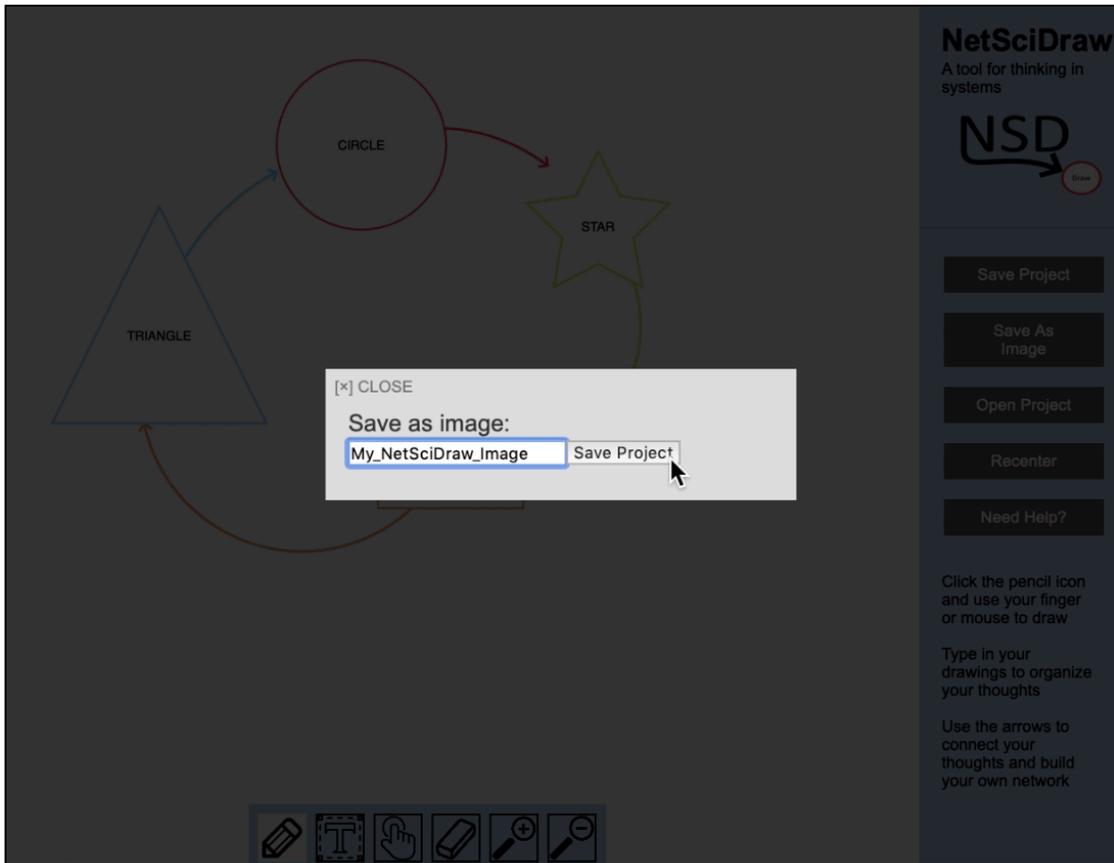
⇒ Select the [Save as Image](#) in the sidebar.

⇒ Type a name for your project image in the pop-up box and select [Save Project](#).

*** **NOTE:** Your project will be saved as a .png file. Therefore, you will **NOT** be able to open and/or edit your project at a later date using the NetSciDraw application. Your .png file will be saved to your device's Downloads folder.



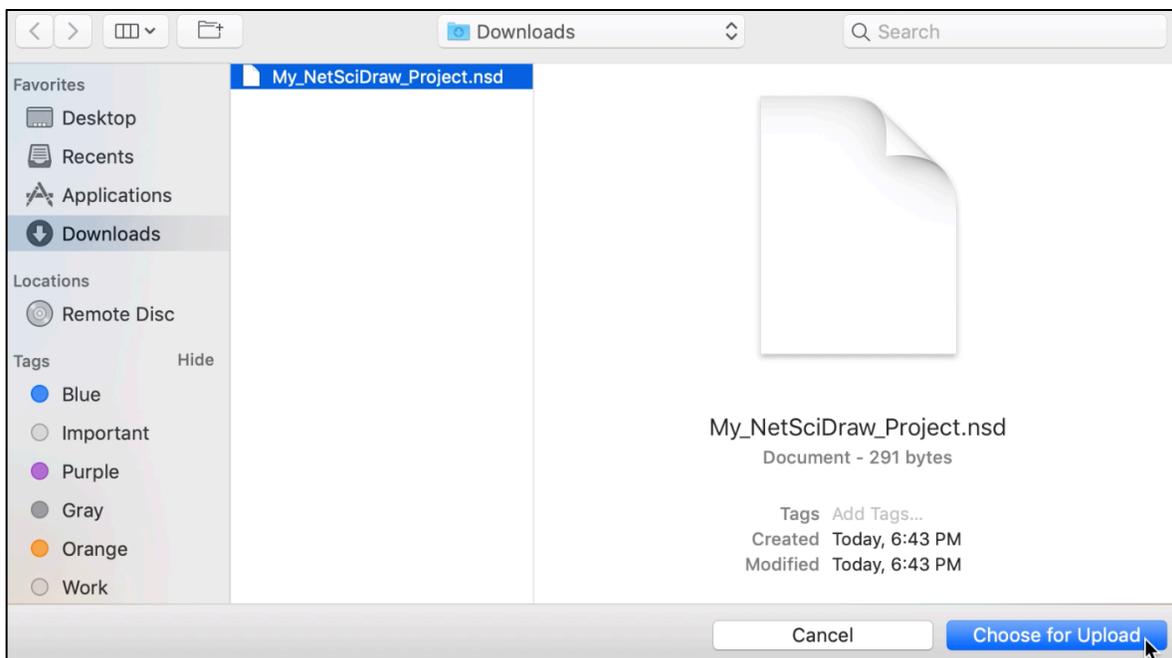
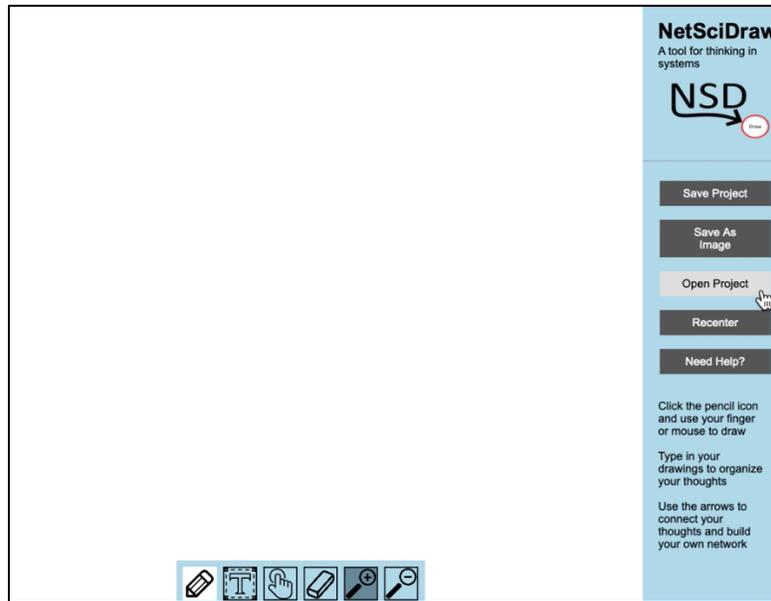
The screenshot displays the NetSciDraw application interface. On the left, a diagram consists of four shapes: a blue triangle labeled 'TRIANGLE', a red circle labeled 'CIRCLE', a green star labeled 'STAR', and an orange rectangle labeled 'BOX'. Arrows connect the shapes: a blue arrow from the triangle to the circle, a red arrow from the circle to the star, a green arrow from the star to the box, and an orange arrow from the box back to the triangle. At the bottom left is a toolbar with icons for drawing (pencil), text (T), selection (hand), erasing (eraser), zooming in (+), and zooming out (-). On the right is a sidebar with the title 'NetSciDraw' and subtitle 'A tool for thinking in systems'. Below this is the 'NSD Draw' logo. The sidebar contains five buttons: 'Save Project', 'Save As Image' (with a mouse cursor hovering over it), 'Open Project', 'Recenter', and 'Need Help?'. At the bottom of the sidebar, there are three lines of instructional text: 'Click the pencil icon and use your finger or mouse to draw', 'Type in your drawings to organize your thoughts', and 'Use the arrows to connect your thoughts and build your own network'.



How to Open a Previously Saved NetSciDraw Project

⇒ Select the [Open Project](#) in the sidebar.

⇒ Select the .nsd file that you want to open then select [Choose for Upload](#). The project saved in the .nsd file you selected will then open in the NetSciDraw application.



NetSciDraw
A tool for thinking in systems

NSD Draw

Save Project

Save As Image

Open Project

Recenter

Need Help?

Click the pencil icon and use your finger or mouse to draw

Type in your drawings to organize your thoughts

Use the arrows to connect your thoughts and build your own network

TRIANGLE

CIRCLE

STAR

BOX

Toolbar icons: Pencil, Text, Hand, Eraser, Zoom In, Zoom Out