The Annotation Feature

What is it?

The Annotation Feature can be used to share mathematical thinking by creating sketches, manipulating annotation objects and shapes, and annotating with text.
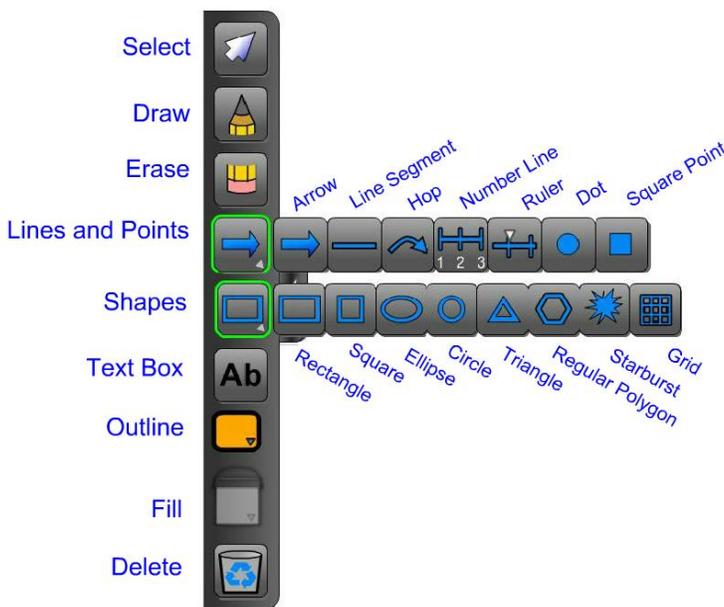
This feature is included in many of the learning tools by mathies.ca.

How do you access the Annotation Feature?

To access click, or tap, the pencil icon. A panel will open displaying all the components of the Annotation Feature.

Note: The panel is already open upon entry to the Notepad Learning tool.

What are the components of the Annotation Feature shown in the panel?

How do you create an annotation?

1. Choose **Draw**, **Lines and Points, Shapes**, or **Text Box**.
   - it will be highlighted to indicate it is selected
2. Click or tap the learning tool workspace and:
   - immediately release to generate a default annotation

   OR
   - drag to draw freehand, customize the size of an object, shape, or text box

What are annotation objects?

Freehand drawings, lines, points, shapes, and text boxes are all considered annotation objects.

When to use Select?

Use Select to:
- ➢ customize an annotation object in the workspace
- ➢ define a freehand drawing as an annotation object
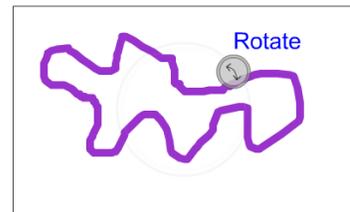- ➢ interact with other features of the learning tool

The Annotation Feature

How to customize annotations?

Draw

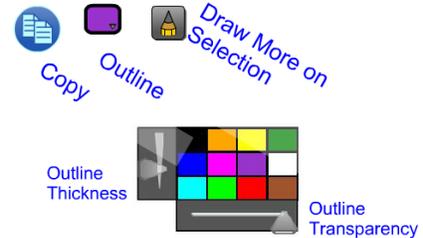Select a drawing object that has been created in the workspace.

Rotate
- ➤ change orientation of the object

Outline
- ➤ change colour
- ➤ adjust thickness
- ➤ adjust transparency

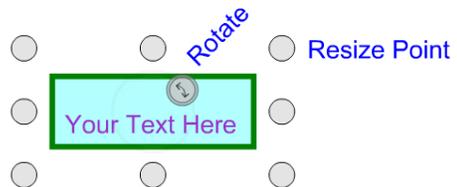**Draw More on Selection**
- ➤ continue drawing freehand

Text Box

Select one of the text boxes that has been created in the workspace.

Rotate
- ➤ change orientation of the object

Resize Point
- ➤ drag text box to a desired size

Outline
- ➤ change colour
- ➤ adjust thickness
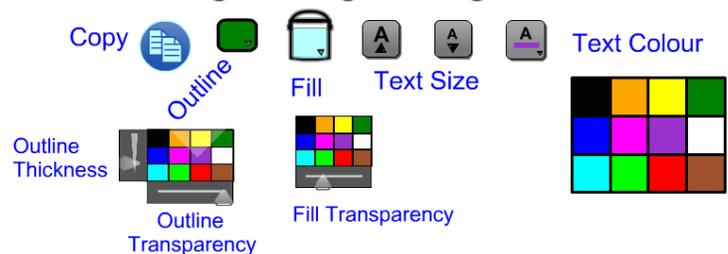- ➤ adjust transparency

Fill
- ➤ change colour
- ➤ adjust transparency

Text Size
- ➤ adjust font size using the increase or decrease text size buttons

Text Colour
- ➤ change colour

❖ Enter text using a keyboard or input using a speech to text feature.

❖ Remove border by moving the **Outline Transparency** slider to the far left or moving the **Outline Thickness** slider to the very bottom.

Lines and Points

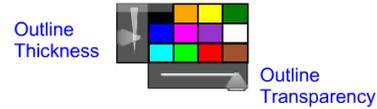Select one of these objects that has been created in the workspace.

Resize Point
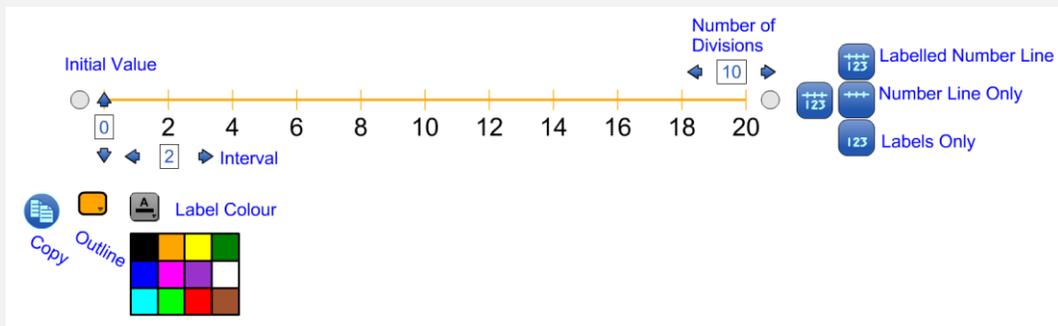➢ drag to a desired size
➢ change orientation of the object

Outline
➢ change colour
➢ adjust thickness
➢ adjust transparency

Resize Point

Copy Outline

Outline Thickness

Outline Transparency

Number Line

Initial Value

Number of Divisions

10

Interval

0   2   4   6   8   10   12   14   16   18   20

2

Label Colour

Copy   Outline

Labelled Number Line

Number Line Only

Labels Only

Initial Value and Interval (scale)
➢ use stepper or input an integer, -1000 to 1000

Number of Divisions
➢ use stepper or input a whole number, 1 to 100

Label Colour
➢ change colour of the numbers on the number line

❖ Use **Number Line Only** to customize scale (e.g., fractions, decimals)
❖ To make an open number line adjust the **Number of Divisions** to 1 and use **Number Line Only** or use the line object from **Lines and Points**.
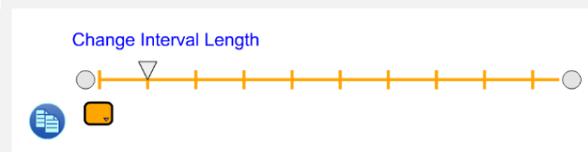
Note: When dragging *Resize Point* the size of the interval may change. The ruler is a better option if the size of the interval needs to remain fixed.

Ruler

Change Interval Length

Change Interval Length
➢ drag the triangle across the ruler

Note: When using the *Resize Point* the size of the interval remains the same but the number of intervals may change.

Shapes

Select one of these shapes created in the workspace.

Rotate
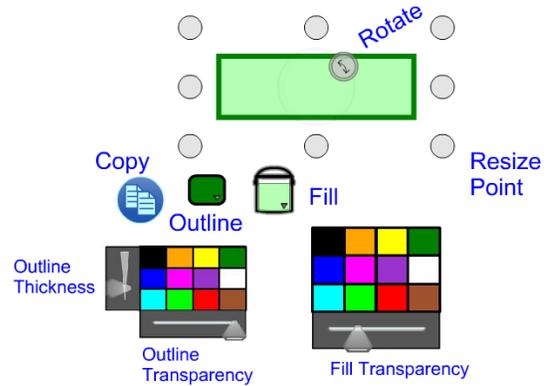➢ change orientation of the object

Resize Point
➢ drag to a desired size

Outline
➢ change colour
➢ adjust thickness
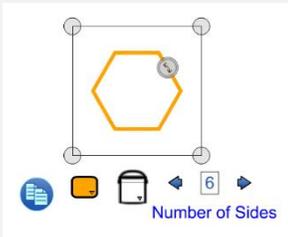➢ adjust transparency

Fill
➢ change colour
➢ adjust transparency

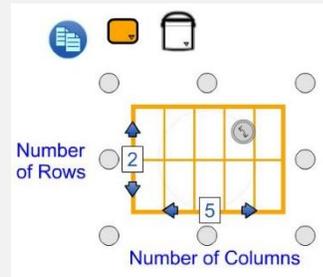For no colour in the shape move the **Fill Transparency** slider to the far left.

Regular   Polygon

Number of Sides
➢ range from 3 to 20 sides

Grid

Number of Rows and Columns
➢ range from 1 to 100

Note: Unlike a spreadsheet, grid has no input fields.

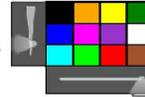## How to change settings prior to creating annotations?

Outline

Option 1:

➤ Select a type of annotation object in the annotation panel.

➤ Select **Outline** to change the colour, thickness and transparency for future annotations.

Outline Thickness

Outline Transparency

Option 2:
➤ Select an annotation object in the workspace.
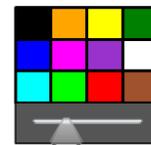➤ Select **Outline** on the Annotation Panel to change the selected object as well as any further annotations.

Fill

Option 1:

➤ Select Shapes or Text Box in the annotation panel.

➤ Select **Fill** to change the colour and transparency for future annotations.

Fill Transparency

Option 2:
➤ Select a shape or text box in the workspace.
➤ Select **Fill** on the Annotation Panel to change the selected object as well as any further annotations.

How to delete annotations?

Only freehand drawings can be erased.

Option 1: Delete an individual object

➤ Drag object to recycle bin

➤ Select object and click or tap **Delete**

Option 2: Delete all objects

➤ Ensure no objects are selected and click or tap **Delete**