

Transformations (Reflection, Translation, Rotation)

Watch the following video on transformation

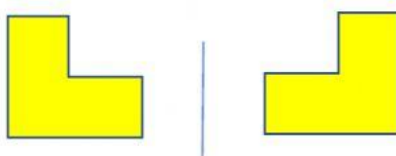
Copy the notes below into your Mathematics notebook.

Transformation is the different ways to move a figure without changing the size or shape of the figure. You can perform three transformations in geometry: **translation**, **reflection**, or **rotation**.

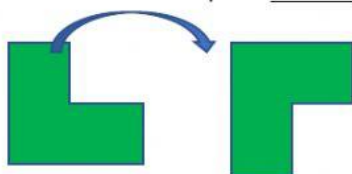
- **Translation**, also referred to as a 'slide', is when a shape is moved in any direction across a plane without rotating or flipping it.



- **Reflection** is when a shape is flipped over a line. Picture what happens when you look into a mirror. When a shape is reflected, the reflection is an equal distance away from the line of reflection.



- **Rotation** is when a shape is turned at a single point.



**Figures must be congruent in order to rotate, reflect and translate.*

Just think: **SLIDE, FLIP, TURN!**

Translate-SLIDE

Reflect-FLIP

Rotate-TURN