

Final Transformation Project

General Instruction:

- Cut out 5 different shapes out of cardstock (approximately the size of post-it notes)
- Trace each shape on an 11"x17" page, each shape will be a different colour
- Perform 4 successive transformations on each shape. Each repetition of the shape will be traced in the same colour as the original. (In total there will be 25 shapes on your page when you are complete.)
- Please number the order of the transformations and label what transformations have been made in short form.

Required Transformations (short form in brackets):

Translations:

- | | |
|---|---|
| <input type="checkbox"/> Translation to the left (Tr \leftarrow) | <input type="checkbox"/> Diagonal up left (Tr \nearrow) |
| <input type="checkbox"/> Translation to the right (Tr \rightarrow) | <input type="checkbox"/> Diagonal up right (Tr \searrow) |
| <input type="checkbox"/> Translation up (Tr \uparrow) | <input type="checkbox"/> Diagonal down left (Tr \swarrow) |
| <input type="checkbox"/> Translation down (Tr \downarrow) | <input type="checkbox"/> Diagonal down right (Tr \nwarrow) |

Reflections (draw reflection line with same colour as shape):

- | | |
|--|--|
| <input type="checkbox"/> Horizontal reflection line (RL) | <input type="checkbox"/> Reflection line inside shape |
| <input type="checkbox"/> Vertical reflection line (RL) | <input type="checkbox"/> Reflection line on perimeter of shape |
| <input type="checkbox"/> Diagonal reflection line (RL) | <input type="checkbox"/> Reflection line outside of shape |

Rotations (draw rotation axis with same colour as shape):

- | | |
|---|--|
| <input type="checkbox"/> 90° rotation (90°) | <input type="checkbox"/> Rotation axis inside shape |
| <input type="checkbox"/> 180° rotation (180°) | <input type="checkbox"/> Rotation axis on perimeter of shape |
| <input type="checkbox"/> 270° rotation (270°) | <input type="checkbox"/> Rotation axis outside of shape |