

A SYMMETRICAL CHALLENGE

We have some large spaces around our school that would look much better with a collection of designs and logos that are representative of the students at Rangeview Intermediate.

Your task over the last 3 weeks is to design and colour either a logo or a design that reflects our school.

All completed pieces will be considered for putting with others to create displays around the school.

Requirements of the work

Paper - to be either A4 or a 20cm square piece.

Design – must use at least 2 of the 3 transformations: translation, reflection, and rotation.

Colour – this needs to be done neatly and comply with the transformations used.

Lettering – If used, consider how you could show the transformations with it. Some letters and styles are better than others for this. You may want to consider reflecting your logo or saying, as if in the water or reflecting it around your design.

BE CREATIVE

Inspiration for your designs

- Consider the cultural diversity within our school.

Many cultures produce art which uses transformations, symmetry and tessellations.

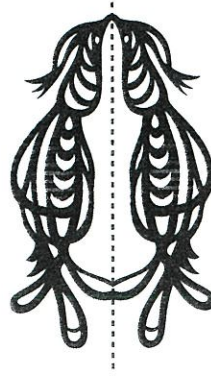
If you choose a cultural design please also spend some time learning about the significance of the design, where it would be seen and the colours that are used with it. It is important that if you use cultural designs you give them the respect they deserve.

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- Consider the variety of subjects taught at the school
 - -Consider the strengths of the students and teachers.
 - Consider our RISE values.
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Line symmetry

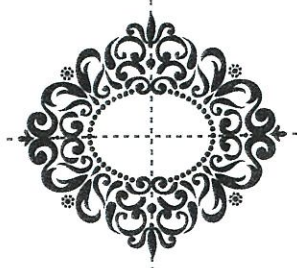
A shape has **line symmetry** if it can be folded so that one half of the shape fits exactly on top of the other half.

Example If this shape was folded along the line of symmetry, one half would fit exactly on top of the other.

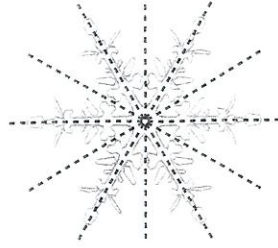


Some shapes have more than one line of symmetry. The dashed lines are lines of symmetry.

Examples



2 lines of symmetry



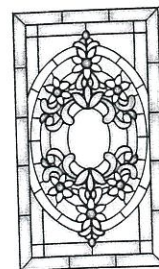
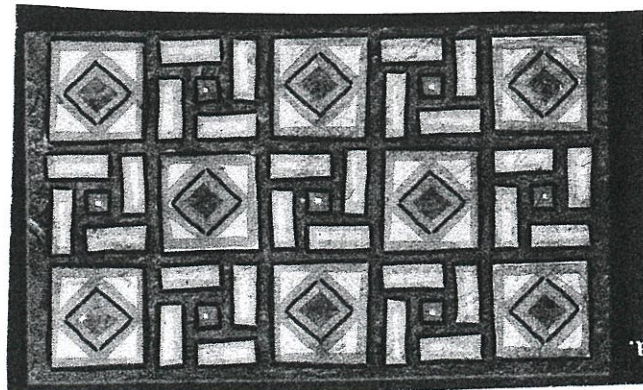
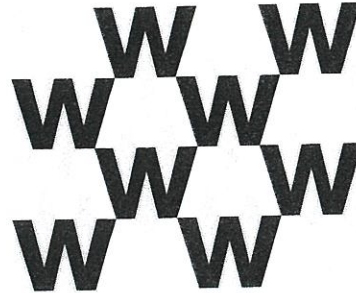
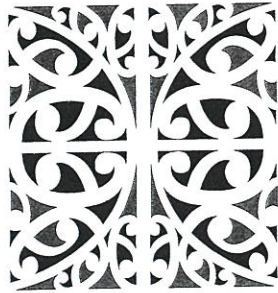
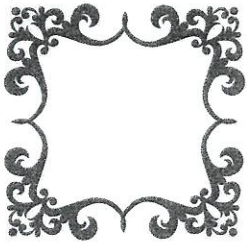
6 lines of symmetry

A shape has **line symmetry** if it has one or more lines of symmetry. The order of line symmetry a shape has is the number of lines of symmetry it has.

Example



This kowhaiwhai has line symmetry of order 2 because it has two lines of symmetry.



MATH

