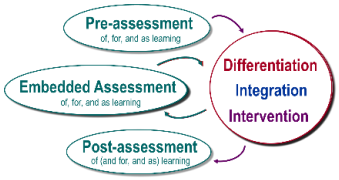


ASSESSMENT

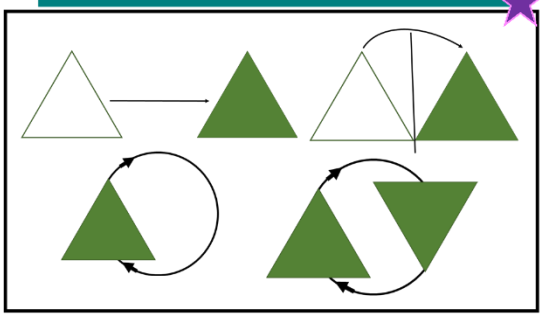
Transforming Effects of Combinations of Translation, Reflection and Rotation

Measurement And Geometry 62

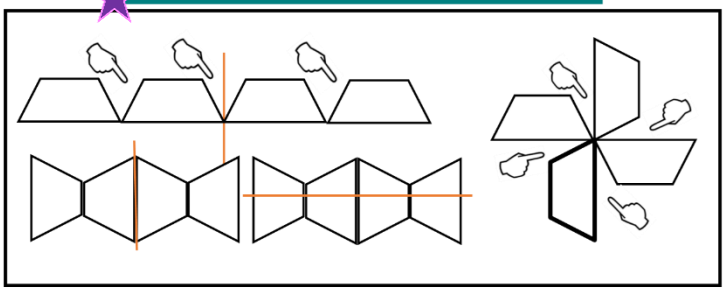
We have included the starred Levels with a logical basis to the grade Level, in this assessment, allowing children to demonstrate their highest Level of understanding. If children are familiar with models other than these, they may demonstrate their understanding using those.

This page displays only Transformations Anchor Charts.

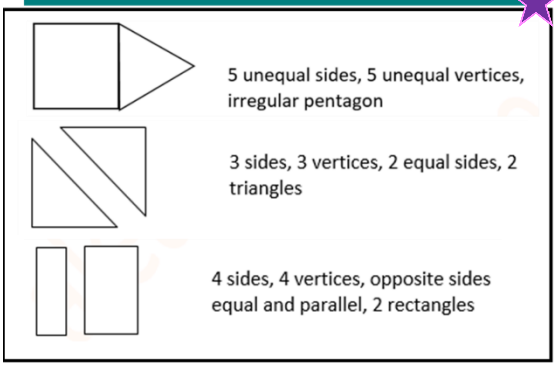
MG 27 Describe one-step slides, flips, full, half, quarter turns



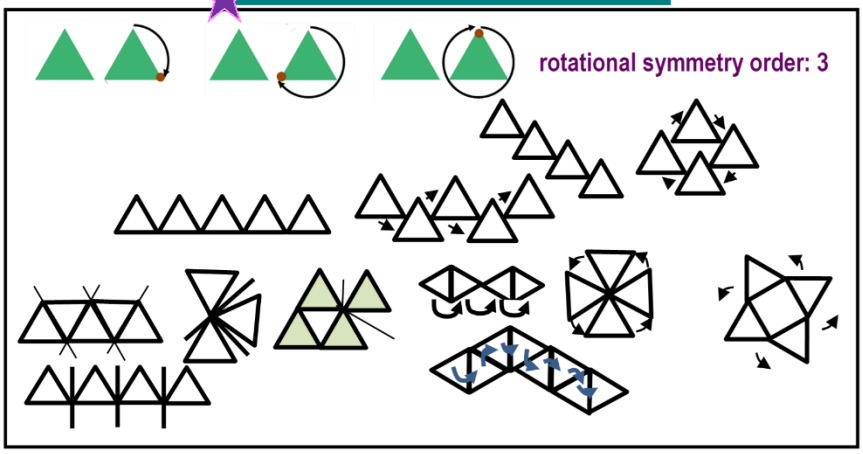
MG 38 Create designs by reflecting, translating and rotating shapes, identifying symmetry and tessellation



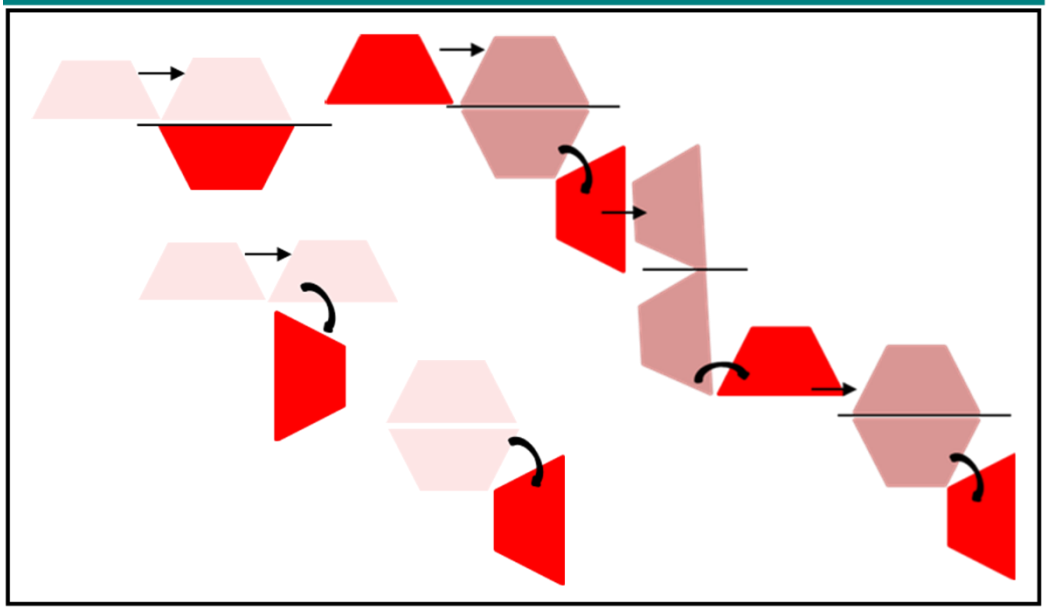
MG 41 Two-dimension shape/s created by combining and splitting



MG 50 Line / rotational / 'order' of rotational symmetry. Transform effects, translations, reflections, rotations

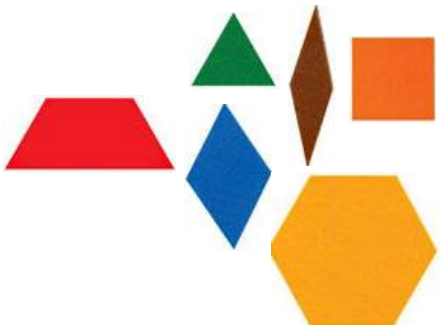


MG 62 Transforming effects and patterns formed by combinations of translation, reflection and degrees of rotation



PRE - ASSESSMENT Select the Level that allows you to demonstrate your highest understanding.

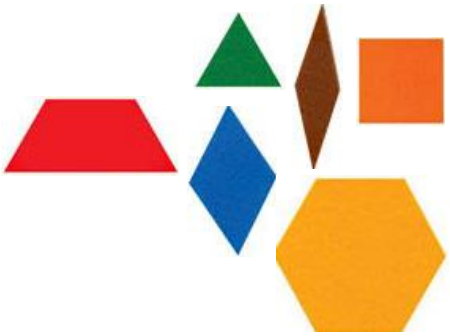
One-Step Slides, Flips, Turns
Have some pattern block shapes.
Slide a pattern block shape.
Explain what changes.
Flip a pattern block shape over a line of symmetry.
Explain what changes.
Turn a pattern block shape a full turn.
Turn a pattern block a half turn.
Turn a pattern block a quarter turn.
Explain what changes.



Create Designs by Translating, Rotating and Reflecting Shapes, Identifying Symmetry and Tessellation
Have some pattern block shapes.
Create a design by translating a pattern block shape.
Identify symmetry in the design.
Check for gaps in the design to identify tessellation.

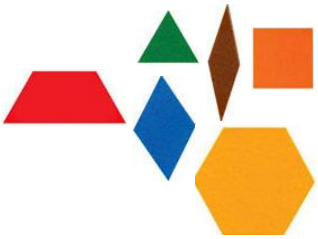
Create a design by rotating a pattern block shape.
Identify symmetry in the design.
Check for gaps in the design to identify tessellation.

Create a design by reflecting a pattern block shape.
Identify symmetry in the design.
Check for gaps in the design to identify tessellation.

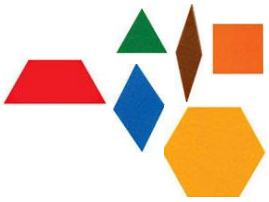


Two-dimension Shape/s Created by Combining and Splitting
Have some shapes.
Combine shapes to create a new shape.
Describe and name the shapes that you combined, and the new shape that you created.

Split a shape to create new shapes.
Describe and name the shape that you split, and the new shapes that you created.

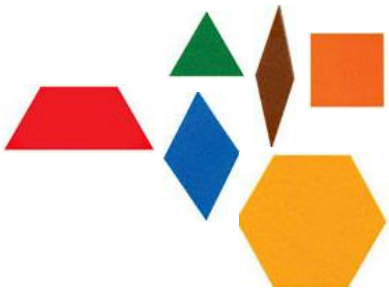


Rotational Symmetry, Transform – Translate, Reflect, Rotate
Have some pattern block shapes.
Rotate a pattern block shape, identifying its order of rotational symmetry.
Translate a pattern block multiple times.
Reflect a shape multiple times.
Rotate a shape multiple times.



POST - ASSESSMENT Select the Level that allows you to demonstrate your highest understanding.

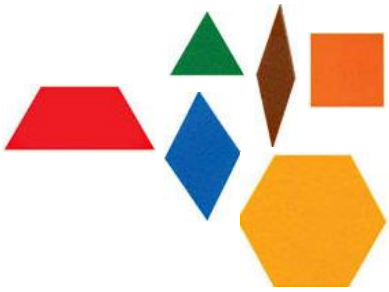
One-Step Slides, Flips, Turns
Have some pattern block shapes.
Slide a pattern block shape.
Explain what changes.
Flip a pattern block shape over a line of symmetry.
Explain what changes.
Turn a pattern block shape a full turn.
Turn a pattern block a half turn.
Turn a pattern block a quarter turn.
Explain what changes.



Create Designs by Translating, Rotating and Reflecting Shapes, Identifying Symmetry and Tessellation
Have some pattern block shapes.
Create a design by translating a pattern block shape.
Identify symmetry in the design.
Check for gaps in the design to identify tessellation.

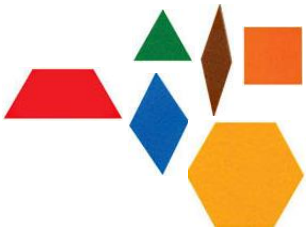
Create a design by rotating a pattern block shape.
Identify symmetry in the design.
Check for gaps in the design to identify tessellation.

Create a design by reflecting a pattern block shape.
Identify symmetry in the design.
Check for gaps in the design to identify tessellation.

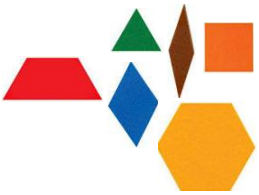


Two-dimension Shape/s Created by Combining and Splitting
Have some shapes.
Combine shapes to create a new shape.
Describe and name the shapes that you combined, and the new shape that you created.

Split a shape to create new shapes.
Describe and name the shape that you split, and the new shapes that you created.



Rotational Symmetry, Transform – Translate, Reflect, Rotate
Have some pattern block shapes.
Rotate a pattern block shape, identifying its order of rotational symmetry.
Translate a pattern block multiple times.
Reflect a shape multiple times.
Rotate a shape multiple times.



Combinations of Transformations
Have some pattern block shapes.
Transform a pattern block shape by a combination of translations and reflections.
Transform a pattern block shape by a combination of translations and 90° rotations.
Transform a pattern block shape by a combination of reflections and 90° rotations.
Create patterns using repeated combinations of translations, reflections, and rotations.