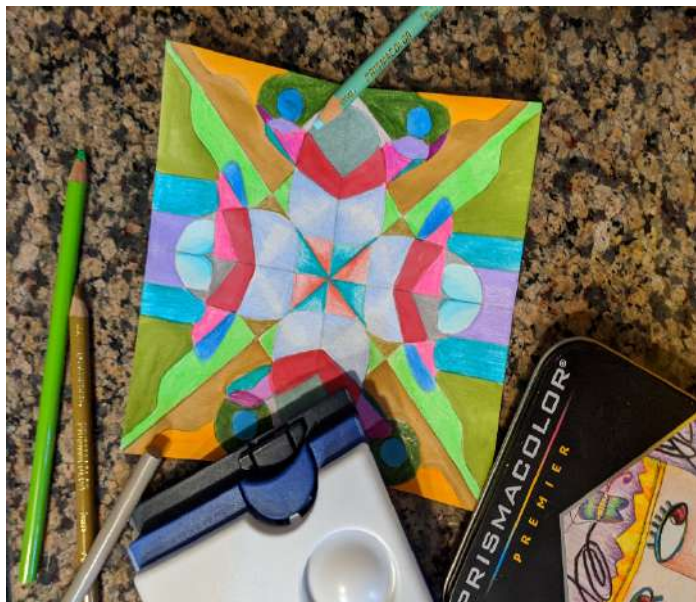


Radial Design with Found Objects

Appropriate for 6th-8th grades



Materials:

- Pencils
- Colored Pencils
- Rectangular or Square drawing paper
- Straight edge or ruler
- Found Objects/Stencils
- Student made cut out shapes
- Colored pencils, watercolors, or markers

Integration:

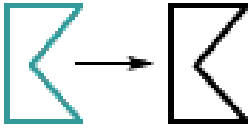
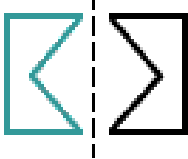

- Math
- Geometry

Vocabulary:

- Rotation
- Radial Symmetry
- Reflection
- Translation

Directions:

1. Use a ruler or straight edge and with a pencil draw lines to separate paper into equal sections. Lines should be drawn half way both horizontally and vertically and lines should be drawn from corner to corner.
2. Look for found objects around home. If students have access to shape stencils, those can be used as well.
3. Trace object on one side of any line. Trying to maintain the same distance, retrace the object on all of the lines or your choice of the horizontal/vertical lines or the diagonal lines.
4. Try to create an interesting design by using **rotation** (this can be achieved by rotating and tracing your object around a single point on a given line or by tracing object at a similar point on all of the lines), **translation** (trace an object and then slide it over and retrace so the object is drawn side by side), and **reflection** (trace object, flip it over and retrace).
5. Allow student choice as they repeat the steps to develop an interesting composition.
6. Some interesting things can be developed if objects are lined up between lines and traced. This also helps the student be able to retrace objects radially.
7. Use colored pencils, watercolors, or markers to add color. If students are using colored pencils, varying the pressure will create more interesting shaded areas. Overlapping shapes can be colored with different colors.

Standards:		Additional Resources:
<p>6th Grade: 6.V.3.2 Create art using a variety of 2-D and 3-D media, including digital. 6.V.3.3 Create art in different media using various techniques and processes. 6.CX.2.2 Understand the connections between art and other disciplines.</p> <p>8th Grade: Math: 8.G.1 Verify experimentally the properties of rotations, reflections, and translations:</p> <p>Art: 8.V.3.2 Use a variety of media to create art. 8.V.3.3 Evaluate techniques and processes to select appropriate methods to create art.</p>	<p>7th Grade: Math: 7.G.2 Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.</p> <p>Art: 7.V.1.2 Understand how the Principles of Design aid in the planning and creating of personal art. 7.V.3.2 Compare media in order to choose the best option to create art. 7.V.3.3 Compare techniques and processes to create art.</p>	<div> <div>translation</div>  </div> <div> <div>reflection</div>  </div> <div> <div>rotation</div>  </div>

