**LESSON PLAN**

**CD Mandalas**

**Objective:** Create mandala design using radial symmetry.

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**Materials**

- Pencils
- White Glue or Hot Glue
- Rulers
- CDs
- 12" x 12" construction paper
- Black permanent markers
- Colored permanent markers
- Water-based markers

**Introductory Activities**

- Discuss the history of mandalas and look at examples.
- Discuss radial symmetry and concentric circles.
- Show how mandalas are becoming popular in coloring books.

**Set Up Paper**

Have students fold their 12" square paper in half both ways diagonally and horizontally so they end up with 8 triangular spaces. A helpful tip is to first have students fold so they create a “plus sign” and then have them fold so they create a “letter x.” Once all the folds have been made, unfold the paper and lay it flat. Have students center the CD on the paper and trace around it. Then, have them use a compass or larger circular tracers to create one or two more concentric circles around the CD. Glue the CD to the paper and let dry.

**Draw and Outline**

Have students add their designs in pencil around the CD, making sure to demonstrate radial symmetry as they go. Once the design is finished, have them outline in black permanent marker. Then, have them continue their design using permanent marker on the CD itself.

**Add Color**

Have students add color to both the CD and the background paper. Remind students their color choices must also demonstrate radial symmetry.

**Insider Tips**

- Make sure students use permanent colored markers on the CD. To save money, students can finish the rest of the design with more economical water-based markers.