Lesson Plan

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School District: VCC

Broad Topic: Geometry
Specific Topic: Transformation: Reflection

Objectives:
- Students will be introduced to appropriate terminology associated with transformation and reflection.
- Students experience creating and recognizing reflection with hands-on manipulations.

Materials & Supplies:
- Pattern blocks (lots)
- Paper
- Rulers
- Pencils
- Mirrors or miras

Lesson:
- Introduction of self and teaching team.
- Discuss meaning of transformation and reflection
  - Trans = across
  - Transform = to change
  - Re = back or again
  - Reflect = to turn, throw or bend off or backward
  - Reflection = production of image as if in a mirror
- Students act out mirroring each other to become human mirrors
- Students point to partner’s eye which corresponds to their right eye then compares to where they would find their own eye in a mirror.
  - “What did you notice?”
- Introduce using pattern blocks in partners to create reflection. One student is “original figure” while the other is “image.” Reverse roles.
- Next, create second line of reflection (vertical). Students determine # of reflections possible. Begin building in opposite corners
  - Stop. Reverse roles.
- If time, try diagonal line of reflection.
- * Both original and image-makers cannot reach across line of reflection nor comment on accuracy.
- After each time of building, activity is stopped and partners view construction from side view to determine reflection. If it is not an accurate reflection, why not?
- Final: bring students to circle to review learning. Discover real-world connection to reflection (kaleidoscope.)
  - Scope = to see
  - Ask for other connection
  - “Trans-continental” = across continent

Where does this fit into curriculum:
- Symmetry
- Congruence
- Tessellations
- Connecting to real-world objects