Lesson Plan-Kaleidoscopes

Grade Level: Fifth

Time: 1 class period

SOLs: 5.6 The student will investigate and understand that visible light has certain characteristics and behaves in predictable ways:

c) matter influences the path of light

Learning Target: I can model and describe how certain materials reflect light.

Materials List:

● Toilet paper rolls

● Mylar or mirrored sheets (9.7cm x 3.5cm per scope)

● Tape

● White cardstock or circle printout

● Bendy straw

● Markers

Engage/Hook:

<https://www.youtube.com/watch?v=Yxa1AnlXdCU&pp=ygUiZ2VuZXJhdGlvbiBnZW5pdXMgbGlnaHQgcmVmbGVjdGlvbg%3D%3D>

Explain/Model:

Show students a completed kaleidoscope. Explain to them that they will be constructing their own to test how light reflects off of mirrored cardboard. Students should make a hypothesis about what will happen when tested in the light, in the dark, and when different colors and shapes are used on their circles.

Explore/Apply:

Students work in groups, pairs, or individually to construct their kaleidoscopes using the directions provided.

Evaluate/Close:

Students write a paragraph to explain what they saw. You can provide a word bank of words for the students to use, including light, reflection, mirrored, color, and visible spectrum.