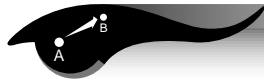




Light and Color—Color Spinners

Objective



The student will observe the effects of rapid movement using colors. The student will observe how colors change and how different colors can be made.

Theory



Some colors are made by adding or subtracting parts of the colors in the spectrum. When designs of more than one color are moved rapidly, the human eye sees these colors blended or mixed.

Science and Mathematics Standards



Materials



Science Standards

- Science as Inquiry
- Physical Science

Mathematics Standards

- Problem Solving
- Communication
- Connection
- Computation/Estimation
- Measurement

- strong string such as kite string
- white cardboard circles 2 to 4 inches in diameter
- magic markers or washable paint
- scissors



Procedures



1. Color the circles with the magic markers. You may color each section a different color or draw a colorful design.
2. When you have colored the circle on both sides, punch two holes in the center of the circle about one-half to one-quarter inch apart.
3. Cut a piece of string about 36 to 48 inches long. Thread the string through the two holes and tie the two ends together.
4. Now hold a piece of the string in each hand and twist it. Pull the string and make the paper circle spin.

Observations, Data, and Conclusions



1. Observe the pattern on the spinning circle. What did you see?
2. What colors did you see?
3. Did the colors seem to mix and become other colors?
4. How can you make green?
5. How can you make orange?
6. How can you make gray or white?
7. How can you make brown?
8. Can you make stripes? How?
9. What else can you make? Keep experimenting!

