

Black and White Colors



QUESTION: What colors do you see when looking at a black and white rotating disk?

MATERIALS:

- 2" ½ wood dowel
- scissors
- pattern disk
- thumb tack

PROCEDURE:

1. Cut out the pattern disk.
2. Use the tack to make a pilot hole in one end of the wood dowel.
3. Push the tack through the middle of the disk so that the pattern faces up (the head of the tack should be on the blank side of the disk).
4. Carefully insert the tack with the disk into the pilot hole in the dowel. Use a hammer to gently tap the tack into the dowel so that it makes a tight fit.
5. Spin the disk by twirling it between your fingers. Observe.
6. Spin the disk at a slow speed and record what colors you see.
7. Spin the disk at a fast speed and record what colors you see.
8. Reverse the direction of spin and observe what you see.
9. Take your black and white rotator apart and assemble it again, this time using the color wheel.
10. Spin the color wheel and observe what colors you see.
11. Make up you own color wheels and observe what colors you see.

DATA:

	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET
Slow spin						
Fast spin						
Reverse spin						

QUESTIONS:

1. What colors did you observe when you spun the black and white disk?
2. What is the order of the colors?
3. Does it make a difference whether you spin the disk fast or slow?
4. Did the order of the colors change when you reversed the spin?
5. What colors do you see when you spin the color wheel disk?

PS – Activity #3

