

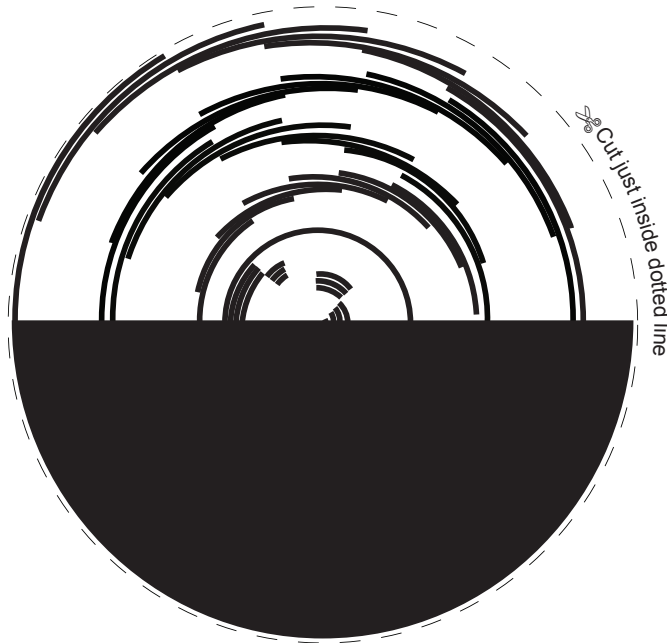
SCIENCE MADE FUN KIDS.NET

Spinner

Instructions:

Using scissors carefully cut out the Spinner (circle image). Ask an adult to help if needed. Once you have cut out the Spinner, bend your paperclip so it is straight. Next, take your paperclip and poke it through the center of the circle. The printed side should be facing you.

Now, spin the Spinner while holding the paperclip. How many colors do you see? One, two or maybe all the colors of the rainbow? ROY G. BIV?



Science Behind It:

When you spin the wheel, the intermittent black and white pattern creates an **optical illusion** that fools the retina into seeing more colors. Experiment with the Power of Light© Spinner under a variety of lighting conditions to discover different results.

When light from the Sun hits our atmosphere, it scatters into this huge thing that we call the “electromagnetic spectrum.” The **electromagnetic spectrum** contains all kinds of things, with visible light just being a small part. The rest of the electromagnetic spectrum is made up of light that we can not see, like x-rays, microwave, ultraviolet, radio and more. Most of the electromagnetic spectrum is made up of light that we cannot see except for the little sliver which is called visible light.

The way you remember visible light is by calling it **ROY G. BIV**. Do you know what ROY G. BIV is? Red – Orange – Yellow – Green – Blue – Indigo – Violet.



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