



# White Lightning Stick

P2-9540

## BACKGROUND:

Color theory tells us that as the different colors or wavelengths of the spectrum are added together, white light is produced. White light passing through a prism produces the spectrum that illustrates this fact. The White Lightning Stick demonstrates this principle more effectively by starting with separate individual colored light sources and combining them to produce white light.

## HOW IT WORKS:

In the White Lightning Stick different colors are rapidly strobing in sequence. The visual effect is to produce a single light that appears white. However, if the Light Stick is waved back and forth, the individual colored lights inside are seen separately allowing students to experience the color mixing principle. The White Lightning Stick also has other modes that may be of interest. These however, are not fundamental to the science teaching objectives.