Skim through your packet to find out about wavelengths, spectrum, and diffraction, as well as how this ties into Space Science.

Explore several light sources using the manufactured Spectroscope provided to your team. Several suggestions for light sources are on page 13 of the packet.

Make your own Spectroscope using the directions provided on page 16 of the packet.

Sketch what you see by looking at different light sources with both of your spectroscopes below. Can you see any differences in the spectrum from different light sources? Be sure to annotate your sketches to indicate differences.

|  |  |  |
| --- | --- | --- |
| Light Source | Manufactured Spectroscope | Box Spectroscope |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Show your team’s completed sketches and box spectroscope to your facilitator for your next clue!**