

Light, Color & Stars

These questions will enable you to conduct a pre-assessment and post-assessment of your students' knowledge of light, colors and stars. The questions are directly related to the subject matter taught in the program. An answer key is provided. Please comment on the value of this material when submitting the program evaluation form.

1. What are the 3 primary colors of pigment?
2. What are the 3 primary colors of light?
3. When you mix the primary colors of light, what color of light does it make?
4. What does ROY G BIV stand for?
5. When white light hits a prism, it creates a rainbow. Explain why the white light separates into different colors.
6. We have to have _____ in order for our eyes to see color.
7. What color of light wavelength will the color orange reflect?
8. When you add a diffraction lens to a telescope, what does it become?
9. What happens when gases meet charged particles?
10. What is the phenomenon called when gases meet charged particles inside the Earth's atmosphere?

Answer Key

1. red, blue, yellow
2. red, blue, green
3. white light
4. the colors, in order, of the rainbow: red, orange, yellow, green, blue, indigo, violet
5. because each color of light is a different wavelength, therefore they bend in different directions and we see the different colors
6. light
7. orange
8. spectroscope
9. they glow
10. an aurora