

# SOMEWHERE OVER THE RAINBOW

Questions • Section 2.2



SCIENCE  
TOPIC  
OUTREACH  
POSTERS

Name \_\_\_\_\_

Grade/Class # \_\_\_\_\_

Name \_\_\_\_\_

Grade/Class # \_\_\_\_\_

## Level ONE Questions (#1-3)

1. What color of the primary (single-arched) rainbow is found highest in the sky? \_\_\_\_\_
2. Which of the following colors is found in sunlight?  
a) red            b) green  
c) blue           d) all of these
3. In a double rainbow, which is brighter, the upper rainbow or the lower one? \_\_\_\_\_

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## Level TWO Questions (#4-6)

4. Which has a shorter wavelength, red light or blue light? \_\_\_\_\_

5. In the secondary rainbow, what color appears lowest in the sky? \_\_\_\_\_

6. What produces the light you see in a rainbow?

a) the raindrops      b) the sky

c) your eyes          d) the sun

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## Level THREE Questions (#7-9)

7. Based on the information presented in the poster, which has a longer wavelength, green light or yellow? Explain how you know.

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8. If the sun is out while rain is falling, in which direction should you look to find a rainbow?

- a) toward the sun    b) with the sun at your back
- c) straight up        d) straight down

9. Do you think there are rainbows on the Moon? Why or why not?

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# SOMEWHERE OVER THE RAINBOW

Answers • Section 2.2



SCIENCE  
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## Level ONE Answers (#1-3)

1. What color of the primary (single-arched) rainbow is found highest in the sky? **Answer: red**
2. Which of the following colors is found in sunlight? **Answer: d) all of these**
3. In a double rainbow, which is brighter, the upper rainbow or the lower one?  
**Answer: The lower one**

## Level TWO Answers (#4-6)

4. Which has a shorter wavelength, red light or blue light? **Answer: blue light**
5. In the secondary rainbow, what color appears lowest in the sky? **Answer: red**
6. What produces the light you see in a rainbow? **Answer: d) the sun**

## Level THREE Answers (#7-10)

7. Based on the information presented in the poster, which has a longer wavelength, green light or yellow? Explain how you know.  
**Answer: yellow (This can be inferred by looking at the picture of the prism. We know blue is the short wavelength side, and green is closer to blue than yellow is.)**
8. If the sun is out while rain is falling, in which direction should you look to find a rainbow?  
**Answer: b) with the sun at your back**
9. Do you think there are rainbows on the Moon? Why or why not?  
**Answer: No. The moon does not have an atmosphere, so there is no way to form the water droplets needed to reflect the light.**