

Name: _____

Date: _____

Light & Shadows

How Can Light Be Broken Into Colours or Combined to Make a New Colour?



Explore: Combining Colours

Question

How are colours combined to produce various colours?

Hypothesis

Write your predictions in the chart below of what colours you think will be produced by combining the following colours of light.

Combine these colours...	...to make what colour?
red and green	
red and blue	
green and blue	
red, green, and blue	

Resources

Access the website links from the online course.

- Colour Vision (website)

Procedure - Part A

- 1 Go to the **Colour Vision** activity, and click "Run Now" to start it.
- 2 Click the sliders to turn on the various colours of light.
- 3 See what happens when you combine various colours. Record your observations on the **Combining Colour Observations Table** located on the following page.

Observations

Combining Colour Observations Table	
Combine these colours...	...to make what colour?
red and green	
red and blue	
green and blue	
red, green, and blue	

Conclusion

- What conclusion can you make based on your observations? Complete each of the sentences below:
 - Red and green make _____ .
 - Red and blue make _____ .
 - Green and blue make _____ .
 - Red, green, and blue make _____ .

Check your answers using the **Check Your Answers** on the following webpage in the course content.