Instructions for Making Green Paint

Step 1: Explore the Proportion Playground

- 1. Click on the Proportion Playground link on the class website.
- **2.** Play with the sim for 5 minutes.
- **3. Pair/Share:** After 5 minutes of exploration, take turns showing your partner what you discovered about this simulation.



Step 2: Making the "Greenest" Paint

4. Choose the "Predict" screen.



5. Then, choose the paint scene.



6. Move the slider at the bottom to make two pairs of counters.



- **7.** Try to make the "greenest" paint by selecting blue and yellow paint units. Use the blue eye to check your mixes.
- 8. When you are ready:

- ➤ Pair/Share: After about 3 minutes, talk with a partner about what you discovered.
- > Answer Question #1
- ➤ Look for more ways to make the greenest paint

Step 3: Which is More Green?

9. Stay in the "Predict" level.



NOTE: Don't press the yellow eye until you are told to do so!

- **10.** Enter these numbers in your counters.
 - ➤ Answer Question #2
 - ➤ Answer Question #3



- 11. NOW PRESS
- **9**0

the to see what happens.

➤ Pair/Share: Talk to your partner about what you predicted and explain what happened.



Step 4: Making the Same Color

14. Change level! Choose the "Explore" screen.



15. Then, choose the paint scene.

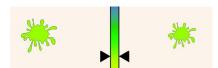


16. Move the slider at the bottom to make two pairs of counters.



- **17.** On the left side, use the blue and yellow counters to make your favorite color.
 - > Answer Question #4
- **18.** Use the counters *on the right side* to match your favorite color by using <u>DIFFERENT</u> numbers of blue and yellow units.

Note: You know your colors are the same when both arrows turn black.



- **19.** Look at the numbers in the counters.
 - ➤ Tell your partner some patterns you notice between the pairs of numbers.
 - > Answer Question #5

Step 5: Making the Same Color with New Numbers

- 20. Keep the numbers on one side the same and change the numbers on the other side to make a <u>DIFFERENT</u> pair of numbers that also make your favorite color.
- 21. Answer Questions #6 and #7.
- 22. Now, use the simulation to check if your 4th pair of numbers also makes you favorite color.
 - > Answer Question #8
- 23. Get ready for a whole class summary discussion.