

Name: _____

Mix and Match Colour Lab

Materials:

- Food colouring; blue, yellow, red, green
- Cotton swabs (4)
- Plastic Cups (4)
- Piece of white paper (1)
- Water

Procedure:

- 1) Place a few drops of red food colouring on the end of a cotton swab.
- 2) Using the cotton swab make a red circle on the white paper (2cm diameter).
- 3) Repeat this process with the three remaining colours.
- 4) Fill each cup about half way with water. Add 3-5 drops of food colouring into each cup. You should have one of each: yellow, red, green and blue.
- 5) Take the blue cup and place it over the red dot. What colour is produced? Repeat this process with the remaining dots and cups. Fill in the following chart:

Cup Colour	Dot Colour	Resulting Colour
RED	RED	
RED	BLUE	
RED	GREEN	
RED	YELLOW	
BLUE	RED	
BLUE	BLUE	
BLUE	GREEN	
BLUE	YELLOW	
GREEN	RED	
GREEN	BLUE	

Name: _____

Cup Colour	Dot Colour	Resulting Colour
GREEN	GREEN	
GREEN	YELLOW	
YELLOW	RED	
YELLOW	BLUE	
YELLOW	GREEN	
YELLOW	YELLOW	

Application Questions:

- 1) What is happening when you place the cup on top of the dot? Why does the colour change?
- 2) Does it make a difference if you hold the cup above the dot or place the cup down? Why or why not?
- 3) ROY G BIV is the acronym for the colours of the rainbow. Red and Yellow make Orange. What two colours make green? Is the orders in the colour of the rainbow a coincidence?

Name: _____

4) What are the three additive primary colours?

5) What are the three secondary colours? What can these three colours do?