



a WOW Lab

BLUEPRINT

Rainbow in a Bottle

Student Handout

In the following handout, students will be required to:

- Make different coloured solutions
- Demonstrate an understanding of the mixing of colours
- Follow simple procedures

Provided in this document are *Student Handout One* (pages 2-9) and *Student Handout Two* (pages 10-13). The first handout provides illustrated instructions for students to follow while completing the *Rainbow in a Bottle* activity. The second handout may be completed by students during the activity wait times. The handouts should be made available to each group prior to the activity.

Student Handout One

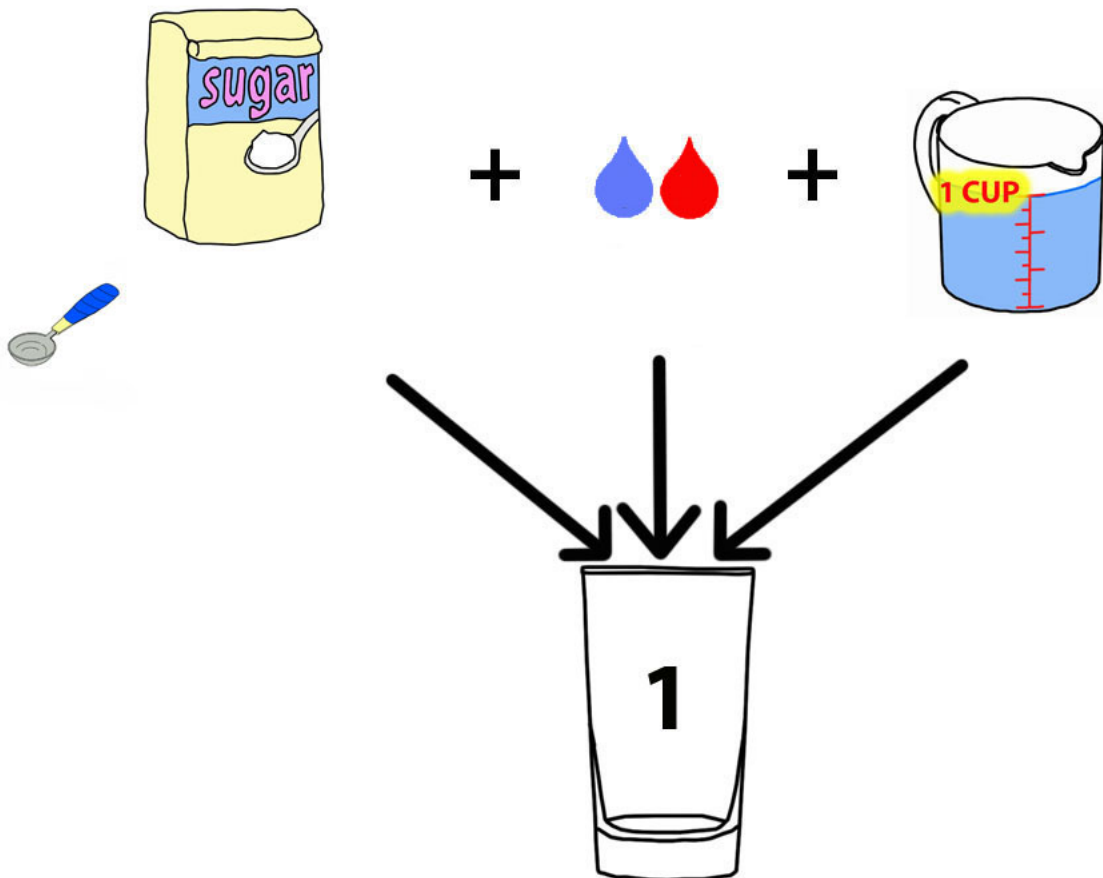
Group 1: PURPLE

In a glass:

Add 1 blue spoon of sugar.

Add 1 drop of blue and 1 drop of red food colouring.

Add 1 cup of water.



Student Handout One

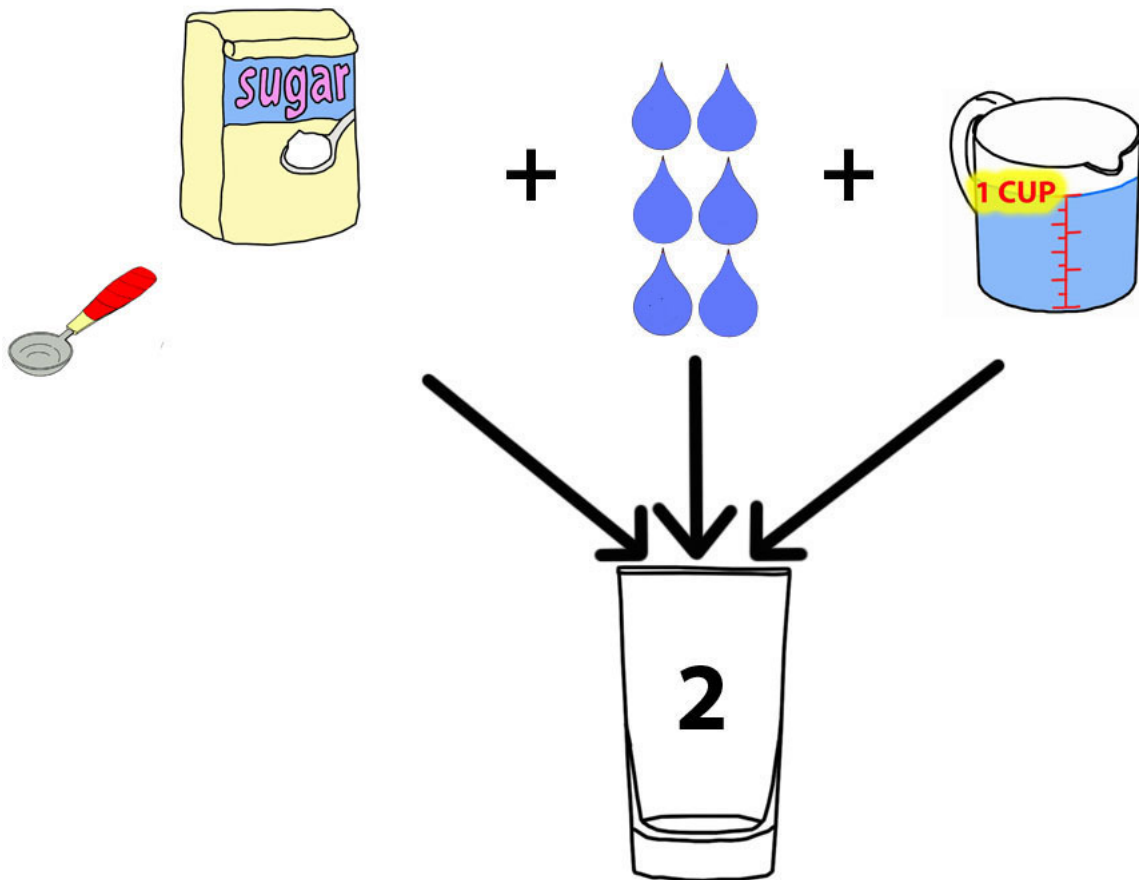
Group 2: BLUE

In a glass:

Add 1 red spoon of sugar.

Add 6 drops of blue food colouring.

Add 1 cup of water.



Student Handout One

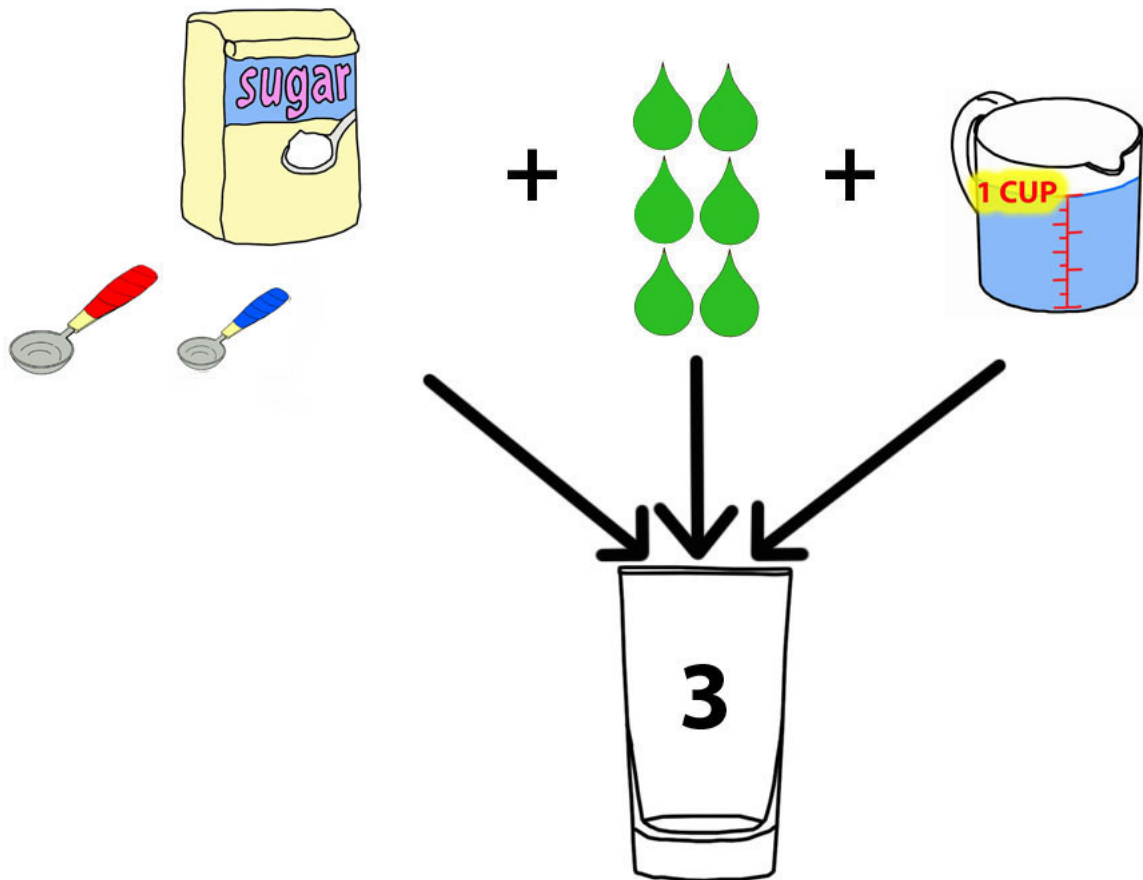
Group 3: GREEN

In a glass:

Add 1 red spoon and one blue spoon of sugar.

Add 6 drops of green food colouring.

Add 1 cup of water.



Student Handout One

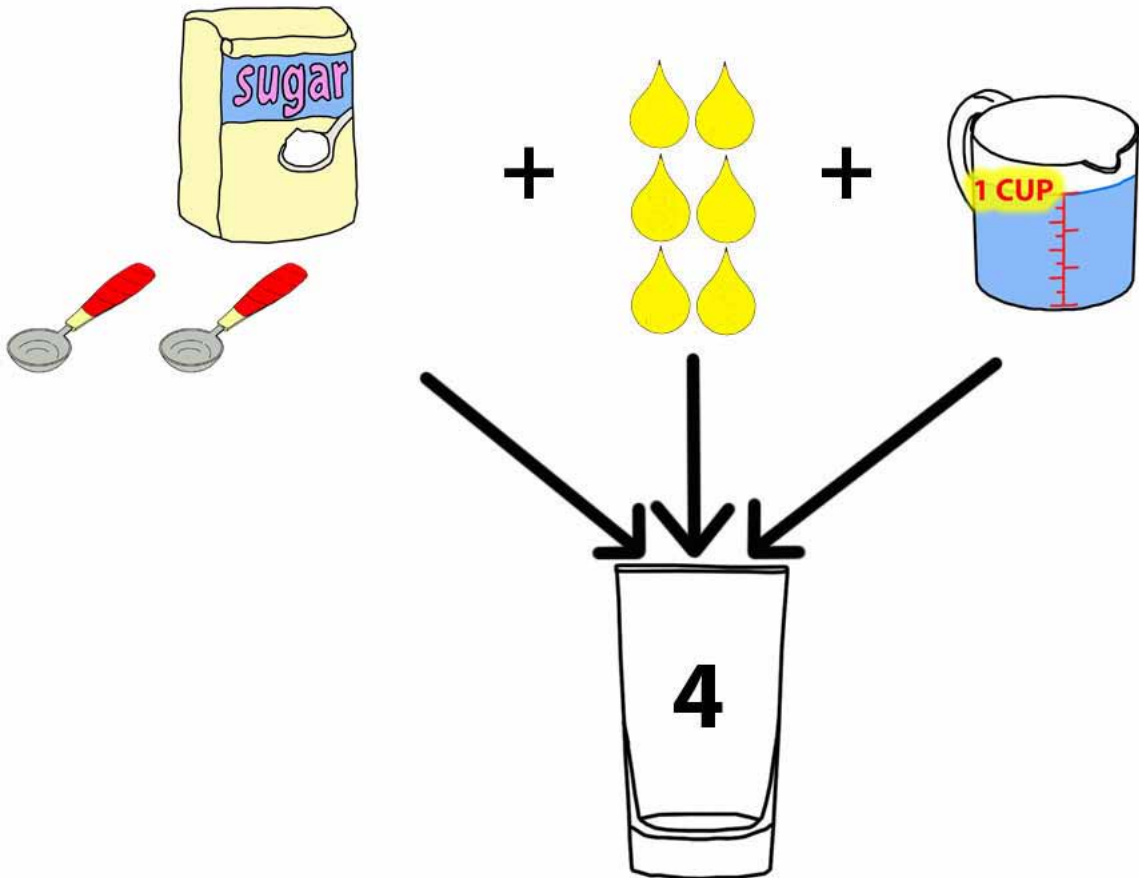
Group 4: YELLOW

In a glass:

Add 2 red spoons of sugar.

Add 6 drops of yellow food colouring.

Add 1 cup of water.



Student Handout One

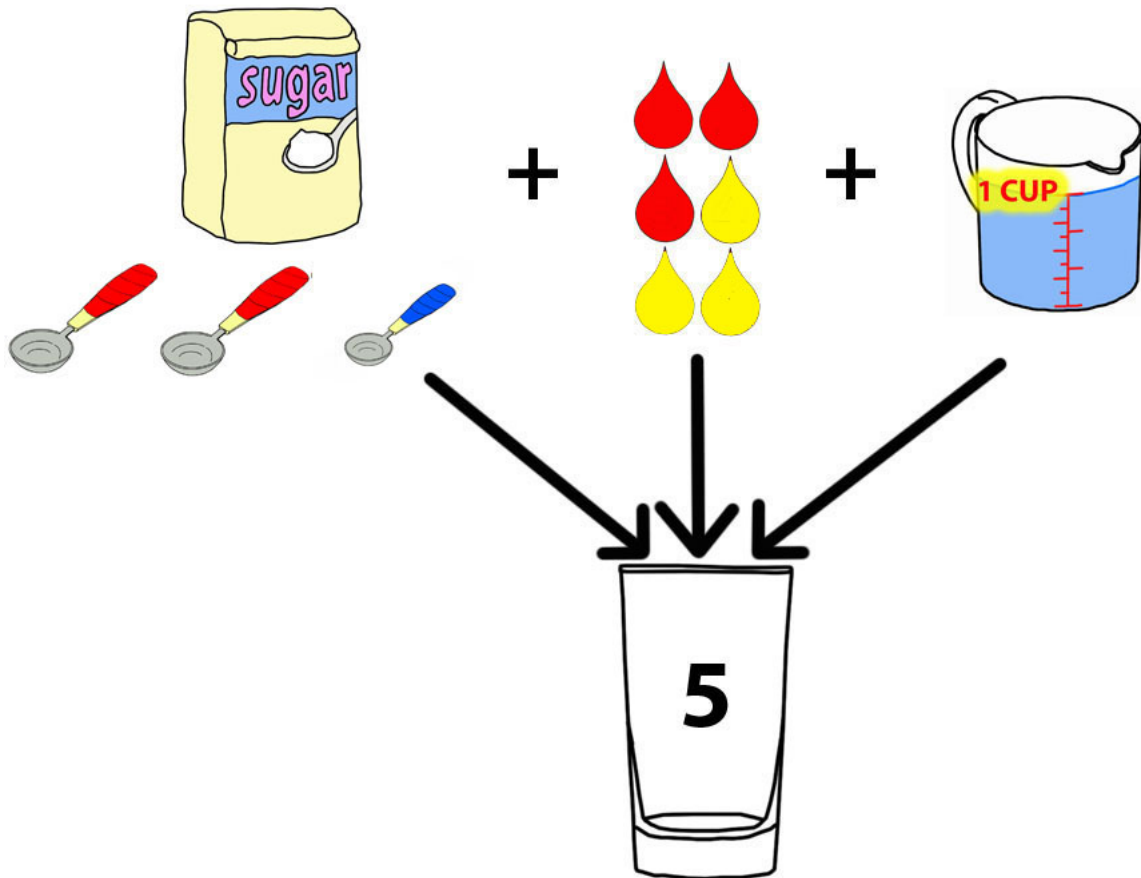
Group 5: ORANGE

In a glass:

Add 2 red spoons and 1 blue spoon of sugar.

Add 3 drops of red and 3 drops of yellow food colouring.

Add 1 cup of water.



Student Handout One

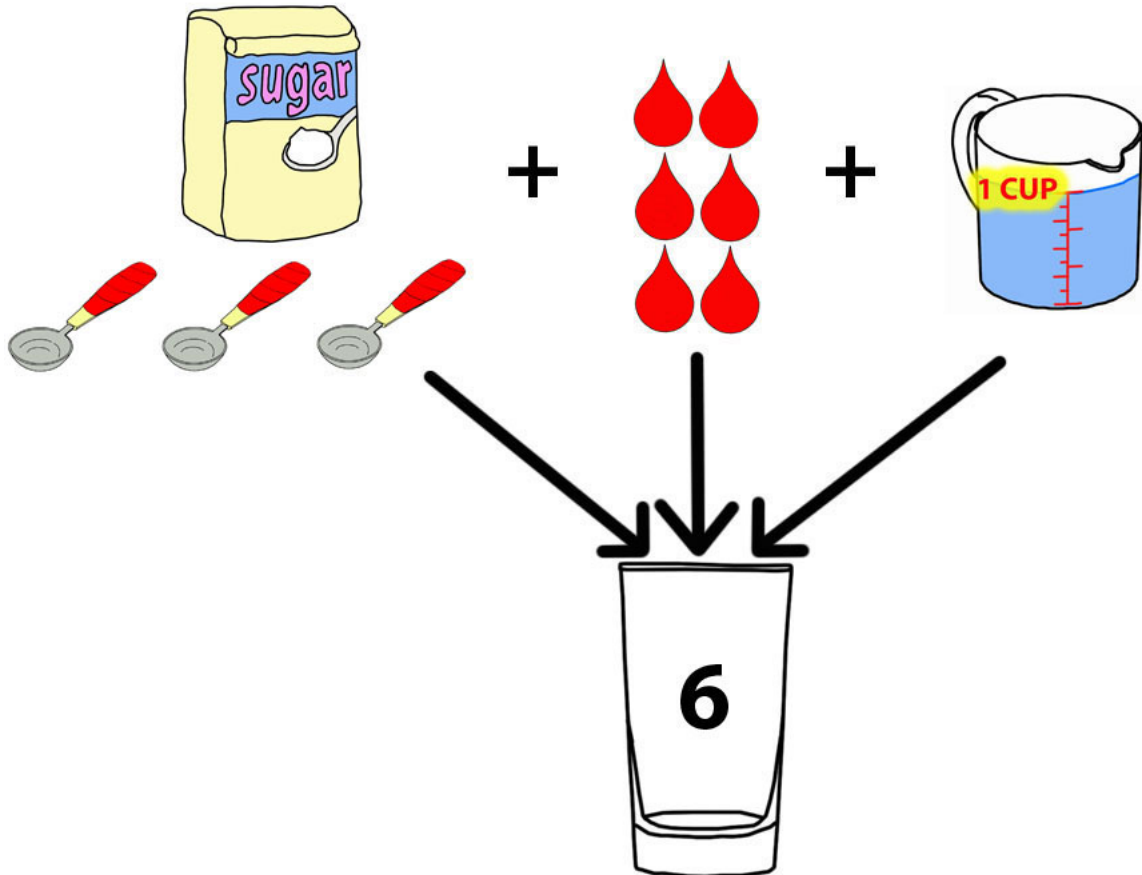
Group 6: RED

In a glass:

Add 3 red spoons of sugar.

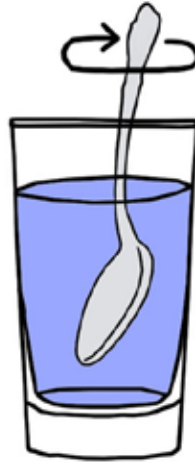
Add 6 drops of red food colouring.

Add 1 cup of water.

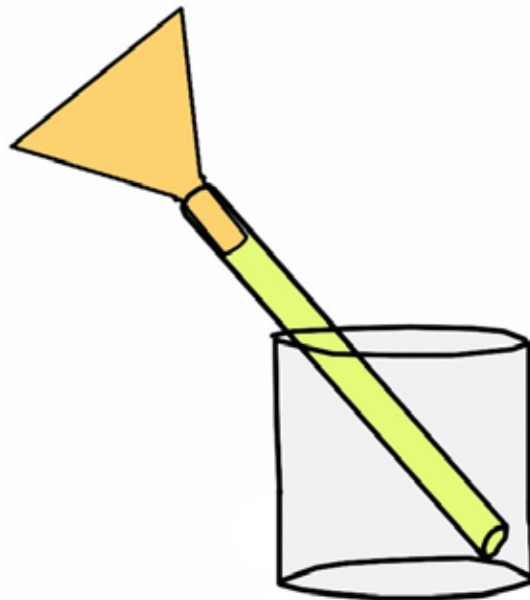


Student Handout One

Use a spoon to stir everything in the glass together.

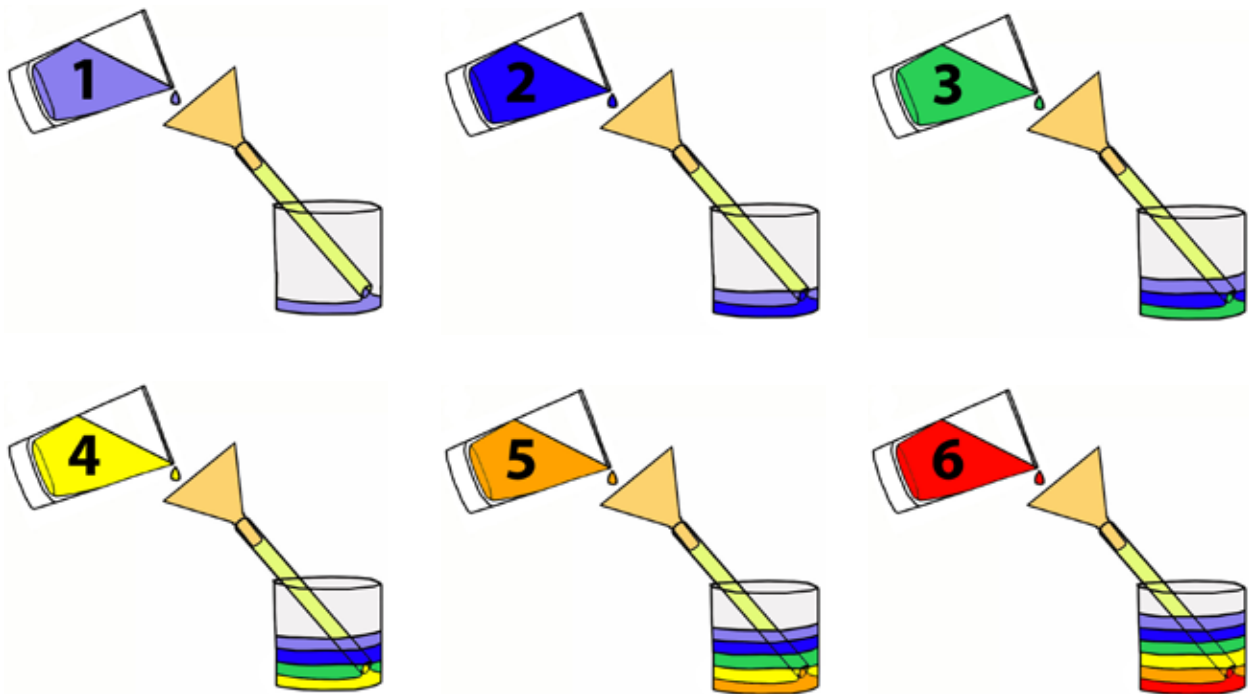


Attach a funnel to a straw. Put it inside a tall, clear container.



Student Handout One

Pour the glasses into the funnel one at a time.
Start with the glass with the **LEAST** sugar (purple).
Finish with the glass with the **MOST** sugar (red).



Student Handout Two

Trace the words under the paint brushes. Colour the white brushes with the colours you need to mix together to make the new colour.



red



+



=



orange

Student Handout Two



yellow



green

Student Handout Two



blue



purple

Student Handout Two

Colour the rainbow with all the colours on the paint brushes.

