Name:_____ Date:_____ Period:_____

Making Lemonade – Reader Page

Your group will be exploring the ratio of water to powder in making the world's best lemonade! Follow the steps below, making sure to record all your work.

Group Roles	
Reader:	Recorder:
Lemonade powder Monitor:	Water Monitor:

Supplies:

Water bottle	Cup
Baggie of lemonade powder	Measuring Instrument
Taster cups (1 per person)	Straw

TASK 1: First Attempt

Step 1: As a group, **predict** how much lemonade powder and water you need to mix to make the world's best lemonade. Have the recorder write the prediction on the group recording sheet.

Step 2: Have the recorder write the prediction as a ratio of lemonade powder to water and water to lemonade powder. Pass the group sheet around to make sure everyone agrees on the answer.

Step 3: Have the recorder draw a tape diagram of the ratio of lemonade powder to water. Pass the group sheet around to make sure everyone agrees on the drawing.

Step 4: Test out your prediction. Have the lemonade powder monitor put the lemonade powder into the cup. Have the water monitor put the water into the cup. Stir using the straw.

Step 5: Using the straw, put a tiny sample of lemonade into each taster cup. Everyone in the group tastes and decides on a ranking from 1 (horrible) to 10 (world's best). You do not have to agree here!

Step 6: As a group, make a plan to make the lemonade better. Have the recorder write this down.

Step 7: Carry out your plan to the cup of lemonade. Use the questions on the group sheet to guide you. Make sure you have a final plan. You will have to show this to the teacher.

Step 8: Raise hand when your group has a final plan to get the final cup of lemonade.

Step 9: Repeat steps 1 – 5 to make the world's best lemonade.