

A background image featuring a complex molecular structure with blue spheres representing atoms and lines representing bonds. The structure is set against a light blue gradient background with faint, larger-scale molecular patterns.

# Grade 7 Science

## Unit 3: Pure Substances and Mixtures

A background image showing a close-up of a microscope's lens and stage. The scene is dimly lit, with a blue-tinted light source creating a soft glow around the microscope's components.

## Heterogeneous or Homogeneous

Today you will once again be using the microscopes. Please be sure to remember all of the rules we have discussed, so that you do not damage them.

The basic procedure for the experiment is as follows:










We will look at 3 fluids: Milk, Orange Juice and 7-Up

- 1) Prepare a wet mount with one of the fluids.
- 2) Look at that fluid with naked eye - record observations, draw what you see
- 3) Look at that fluid with magnifying lens - record observations, draw what you see
- 4) Look at that fluid with microscope - record observations, draw what you see
- 5) Repeat for other two fluids

# Heterogeneous or Homogeneous

Let's have a look at your recording sheet so that you know how to record your observations.

Name: _____		Class: _____		
Yantra	Observation Method	Observation	Heterogeneous / Homogeneous	Reasoning
148	Naked Eye			
	Magnifying Glass			
	Microscope			
Orange Juice	Naked Eye			
	Magnifying Glass			
	Microscope			
Pop	Naked Eye			
	Magnifying Glass			
	Microscope			

Sample	Naked Eye	Magnifying Glass	Microscope
148			
Orange Juice			
Pop			

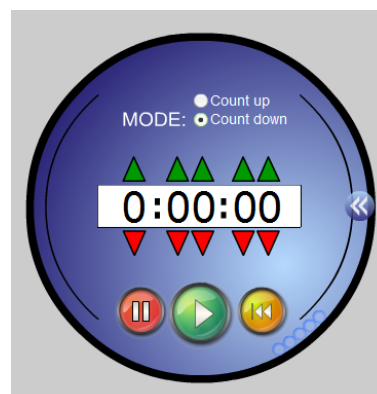
To be considered complete, you will need to have all of the circles and all of the boxes filled in.

# Heterogeneous or Homogeneous

In the same groups as last class you are to perform the procedure, as outlined on the sheet, to complete today's experiment. Recall your microscope guidelines.

On the back table you will find all of your supplies.

- Put a drop of one of the liquids on a slide.
- Examine the liquid with your eyes.
- Record your observations in the appropriate boxes of your worksheet, state whether you feel the liquid is heterogeneous or homogeneous **BASED ON YOUR OBSERVATIONS AT THIS TIME**, then state why.
- Draw what you saw in the appropriate circle on the back of your worksheet.
- Examine the liquid with a magnifying glass.
- Record and draw your observations similar to above.
- Put a slide cover on the liquid already on the slide.
- Examine the liquid with a microscope at the highest magnification you can focus.
- Record and draw your observations similar to above.
- Repeat for the other two liquids.
- Clean up all of your supplies, ensuring the microscope is put away properly.



When the timer sounds, you will then have 5 minutes to have all of your supplies cleaned and put away.

## Attachments

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3-4 Lab Data Table and Observation Page.pdf

3-4 Procedure.pdf