



a WOW Lab

BLUEPRINT

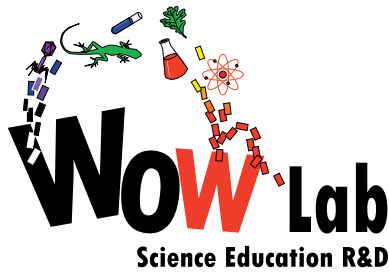
Milk Medley

Student Handout

In the following handout, students will be required to:

- Record their observations

Provided in this document are sample answers (pages 2-3) and a blank handout (pages 4-5). The blank handout should be made available to each student or group prior to the activity.



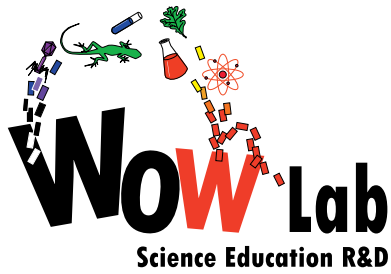
Student Handout - Answers

Before the activity, record observations of the starting materials. These observations can include appearance, texture and smell.

Starting Material	Observations
Cream	<ul style="list-style-type: none">• off-white in colour• thick liquid• smells sweet
Powdered milk	<ul style="list-style-type: none">• white in colour• solid powder• sand-like
Whole milk	<ul style="list-style-type: none">• white in colour• liquid

What do you observe when you compare the three materials? Is it easy to tell the materials apart? Once you add water to the powdered milk, do the materials become more similar?

The cream and whole milk are very similar in appearance. While it is possible to distinguish between them, it is hard to do by sight alone. Once water is added to the powdered milk, all three substances are very similar in appearance.



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Milk Medley - Handout Answers

After the activity, record observations of the end products. These observations can include appearance, texture, smell and taste.

End Product	Observations
Butter	<ul style="list-style-type: none">• solid• spreadable• off-white or white
Glue	<ul style="list-style-type: none">• solid• sticky• opaque• off-white
Cheese	<ul style="list-style-type: none">• solid• crumbly• white

How have the materials changed as a result of the activities?

The three end products of the activities are very different and easily distinguishable. The differences in the end products highlight the important point that very similar materials can be changed into very different substances depending on the experimental procedure.

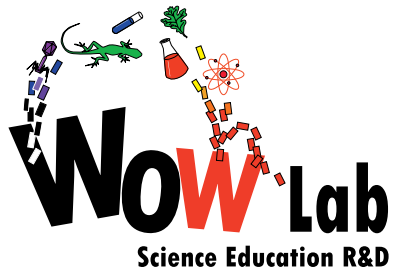


Student Handout

Before the activity, record observations of the starting materials. These observations can include appearance, texture and smell.

Starting Material	Observations
Cream	
Powdered milk	
Whole milk	

What do you observe when you compare the three materials? Is it easy to tell the materials apart? Once you add water to the powdered milk, do the materials become more similar?



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Milk Medley - Student Handout

After the activity, record observations of the end products. These observations can include appearance, texture, smell and taste.

End Product	Observations
Butter	
Glue	
Cheese	

How have the materials changed as a result of the activities?