Student Handout

Use Table 1 to identify which substances will be combined in each cup:

Table 1: List of substances being mixed

Cup	Substances	Cup	Substances
1	Water – Vegetable Oil	7	Vegetable Oil – Salt
2	Water – Rubbing Alcohol	8	Vegetable Oil – Sugar
3	Water – Salt	9	Vegetable Oil – Flour
4	Water – Sugar	10	Rubbing Alcohol – Salt
5	Water – Flour	11	Rubbing Alcohol – Sugar
6	Vegetable Oil – Rubbing Alcohol	12	Rubbing Alcohol – Flour

Use table 2 to record your hypothesis and results:

Table 1: Experimental Results

Mixture	Hypothesis (Solution or Mechanical Mixture)	Result (Solution or Mechanical Mixture)
Water & Vegetable Oil (1)		
Water & Rubbing Alcohol (2)		
Water & Salt (3)		
Water & Sugar (4)		
Water & Flour (5)		
Vegetable Oil & Rubbing Alcohol (6)		
Vegetable Oil & Salt (7)		
Vegetable Oil & Sugar (8)		
Vegetable Oil & Flour (9)		
Rubbing Alcohol & Salt (10)		
Rubbing Alcohol & Sugar (11)		
Rubbing Alcohol & Flour (12)		

Student Questions

1. How were you able to distinguish if a mixture was a solution? What about a mechanical mixture?

2. Draw a diagram of one of your solutions and one of your mechanical mixtures.

Solution	Mechanical Mixture

3. List three solutions and three mechanical mixtures that you can find at home or at school.

Solutions	**Mechanical Mixtures**