

## Solutions, Suspensions, and Colloids Lab

**Objective:** To observe various mixtures and identify them as a solution, suspension, or colloid

**Material:** sucrose, soluble starch, clay, food coloring, salt, cooking oil, gelatin, vinegar, flashlight

**Theory:** Three different types of mixtures can be identified by using a beam of light to illustrate the Tyndall Effect. If the mixture is transparent and the Tyndall Effect is not seen, the mixture is a solution. If the mixture shows a Tyndall Effect and does not settle, the mixture is a colloid. If the mixture shows the Tyndall Effect and settles, it is a suspension. *(When a beam of light passes through a colloid, the beam is visible and appears as a ray passing through the material. Inside the container of a colloid, a light beam is visible as a set path. When a beam of light passes through a true solution, the beam is not visible when passing through the material. Inside the container of a solution, the beam is not visible as a set path.)*



**Procedure:**

1. Describe each mixture by placing your observations in the data table under "appearance".
2. Shine a flashlight through each mixture and observe what happens. The Tyndall Effect will either be present or not present. (Refer to the theory section above for further explanation.)
3. Based on procedure steps 1 and 2, classify the mixtures as solutions, suspensions, or colloids. (Refer to the theory section above for further explanation.)
4. Complete the reasoning column in the data table by explaining why you chose the classification that you did for each mixture.

**Observation Table:**

Mixture	Appearance	Tyndall Effect?	Classification	Reasoning
Sucrose + H <sub>2</sub> O				
Starch + H <sub>2</sub> O				
Clay + H <sub>2</sub> O				
Food Coloring + H <sub>2</sub> O				
Salt Water				
Cooking Oil				

# Solutions Suspensions And Colloids Lab Answer Key

**EW Minium**



## **Solutions Suspensions And Colloids Lab Answer Key:**

Science Lab Manual Class IX | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.  
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the 4th Symposium in this series it became amply evident that there was a definite need to have more a generic title to describe these biennial events and after much deliberation it was decided that an appropriate title would be Surfactants in Solution as both the aggregation and adsorption aspects of surfactants were addressed So the 4th Symposium was held in 1982 in Lund Sweden under this new rubric and it was decided to continue these symposia in the future under this appellation Naturally the Bordeaux Symposium was dubbed as the 5th International Symposium on Surfactants in Solution and our logo became SIS which is very apropos and appealing It was in Bordeaux that the decision was made to hold the 6th SIS Symposium in New Delhi and it is scheduled for August 18 22 1986 in the capital of India

Prentice Hall Science Explorer: Chemical Interactions Pearson/Prentice Hall, Michael J. Padilla, 2004-10 U.S. Government Research Reports, 1964 Scientific and Technical Aerospace Reports, 1995 Energy Research Abstracts, 1989 Applied Mechanics Reviews, 1985

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