Changes

Elaborate

Investigate: Changes

Safety
Conduct the following investigations with attention to chemical and laboratory safety. Assume that the chemicals used in the investigations are toxic and corrosive. List the safety precautions in the space provided.

Add one substance to another as directed in the table below. Observe carefully and record your observations. Classify the changes as physical or chemical, and state your reasons for the classification. Be prepared to discuss your observations, analyses, and conclusions with the class.

	Investigation	Observation	Physical/Chemical How do you know?	Exothermic/ Endothermic How do you know?
1	Place about 2 mL of Liquid **B** in a test tube. Add a very small amount of Solid **A** to Liquid **B**.			
2	Place about 2 mL of Liquid **C** in a test tube. Add a few drops of Liquid **D** to Liquid **C**.			
3	Place about 2 mL of water in a test tube. Add a small amount of Solid **E** to the water in the test tube.			
4	Fill a small beaker half full with water. Obtain Liquid **F** from your instructor. (Caution: This liquid may be hot.) Carefully pour the hot Liquid **F** into the water in the beaker.			
5	Place about 2 mL of Liquid **G** in a test tube. Add an equal amount of Liquid **H** to the test tube.			

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Analysis and Conclusions

1. In which investigation is mass conserved?

2. In which investigation would you expect to observe a reduction in mass? Why?