

Do the Research

Let's boggle our brains

Sub : Science

Grade: IX

Date:

Name:

ID No.....

Topic: Separating the Components of a Mixture.

Directions: Research the topic indicated above and answer the questions below, based on that topic.

1. Salt can be separated from its solution by evaporation. Name one other method for the same.

2. A student wanted to dilute a solution of salt in water. By mistake, he added acetone (boiling point 56°C). What separation technique can be used to get back the acetone?

3. You are given two tubes as shown in figure. Which one of the tubes will be more effective as a condenser in the distillation apparatus?

4. Can you separate a mixture of alcohol and water by using a separating funnel? If yes, then describe the procedure. If not, suggest a suitable separation technique.

5. To separate a mixture of two or more miscible liquids for which the difference in boiling points is less than 25 K , fractional distillation is used. What part of fractional distillation apparatus makes it efficient and possess an advantage over a simple distillation process?
