Teacher Name: **Fouzia Saleem** Class: **6** Subject: **Science** Date: **20th September,2019**

**Answer the following questions.**

1. Do you see the influence of Science around you?

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2. Which branch of science deals with the study of chemicals?

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3a. Why is it important for a scientist to have positive attitudes like curiosity, being fair and objective?

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4a. What is the first step in studying scientific method?

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Answer the following questions.

|  |  |  |
| --- | --- | --- |
| **Water and;** | **Prediction**  **Will it dissolve?** | **Did it dissolve?** |
| Sand |  |  |
| Chalk |  |  |
| Sugar |  |  |
| Salt |  |  |
| Oil |  |  |
| Flour |  |  |
| Coffee |  |  |

**1:** Make hypothesis; Solids will dissolve quickly in hot water.

**Variables to be changed Variables to keep constant**

Temperature of liquid Rate of stirring, Surface area of solid.

**Hypothesis:**

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2. Make hypothesis; The greater the surface area, more will be the dissolving.

**Variables to be changed Variables to keep constant**

Surface area Rate of stirring, Temperature of liquid

**Hypothesis:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3:** Make hypothesis; The faster the rate of stirring, more will be the dissolving

**Variables to be changed Variables to keep constant**

Rate of stirring Temperature of liquid, Surface area of solid.

**Hypothesis:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write your predictions and findings in the activity sheet.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of liquids** | **My prediction**  **about dissolved material** | **How to test**  **my prediction?** | **Is your**  **prediction true?** |
| Sugar solution |  |  |  |
| Salt solution |  |  |  |
| Tape water |  |  |  |

**Read page #116-118 in differentiated groups and perform the following tasks.**

**Task 1**: Sequence the steps to separate salt and water.

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**Task 2**: Sequence the steps to separate sand and salt

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**Task 3**: Sequence the steps to separate iron filings, salt and sand

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**Extension Task**

Think tank page 123, Q.2

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