

# Assam Goes Online (AGO)

**Class – 6**

**Subject – Science**

**Topic – Separation of Substances**

## Learning Objectives:

- Students will learn how different substances are separated and why we need to separate some substances from mixture.
- Students will learn different methods of separating substances.
- Students will learn about condensation, sedimentation and evaporation.

| Sl no. |            | Activities  | Resource            |
|--------|------------|---|---------------------|
| Day 1  | 20 minutes | <p><b>Activity 1:</b></p> <p>Suppose you and your friend went to a vegetable market and you purchased 1 kg potatoes, 1 kg chillies, 1 kg beans and your friend purchased <math>\frac{1}{2}</math> kg onion and <math>\frac{1}{2}</math> kg okra (ladies finger) and kept in one bag.</p> <p>When you and your friend came back from market and you have to give the onion and okra (ladies finger) to your friend. What steps will you take to separate the onion and okra (ladies finger)? Write</p> | Internet /Textbook. |



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|-------|------------|--|--|
|       |            | <p>the steps and share with you teacher.</p> <p>What is this process/method of separating one item from a mixture called? Why do we need to separate substances from mixture? Write the answer in your notebook and share with your parents and teachers.</p>  |  |
|       | 30 minutes | <p><b>Activity 2:</b></p> <p>Watch a video to understand the process of Handpicking, Threshing and Winnowing.</p> <p>Students can also take help of internet to understand the process of Handpicking, Threshing and Winnowing.</p> <p>They can also scan Diksha QR code of their text book and go to diksha app to understand the same.</p> | The students can scan diksha QR code and go to the diksha app to watch the video which explains the topic. |
| Day 2 | 30 minutes | <p><b>Activity 3:</b></p> <p>Take some mud and mix it with a glass of water. Now keep this mixture for 20 minutes. What are the changes that you observed? Note down your observation and share with your teachers/ parents. can you explain why the changes happened?</p> <p>Read the page no 39 of your textbooks to get the answers.</p>  | <p>Textbook page 39</p> <p>The students can also search on Internet for more information.</p>              |
|       | 30 minutes | <p><b>Activity 4:</b></p> <p>Take some sugar and rice and mix it well. Now, how will you separate these two items?</p> <p>– You can mix some water into the mixture so that sugar dissolve in</p>  | Textbook/ Internet search  |

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|       |            | <p>water and rice can be separated by using a strainer.</p> <ul style="list-style-type: none"> <li>– Now, to separate sugar from water, heat it. Continue boiling the mixture until the liquid has almost disappeared.</li> <li>– Take a metal plate with some ice on it and hold it above the steam coming from the boiling mixture so that water drops fall in another vessel. Like this water will be separated in another vessel and sugar will be left out.</li> </ul> <p>Now you read the book and write different processes involve in this activity with definitions.</p>  |            |
| Day 3 | 30 minutes | <p><b>Assessment:</b></p> <p><b>Fill in the blanks-</b></p> <ul style="list-style-type: none"> <li>i) Husk is separated from heavier seeds of grain by _____.</li> <li>ii) More of a substance can be dissolved in a solution by _____ it.</li> <li>iii) Separation of chilli from mixed vegetable is called _____</li> <li>iv) Separation of stones from sand is called _____.</li> <li>v) _____</li> </ul> <p><b>Answer the following question:</b></p> <ul style="list-style-type: none"> <li>– When the milk is cooled after boiling, it is poured on to a piece of cloth to separate the cream from the milk. What is this process called?</li> <li>– We know that Salt is made from sea water. What is the process of getting salt from Sea water?</li> <li>– Your mother asked you to bring tea leaves and Cumin (jira) from the grocery shop. while coming back, the two packets tore and the tea leaves and cumin got mixed. How will you separate the tea leaves and cumin now?</li> </ul> | 30 minutes |



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