

Sandstone Recipe

Materials for each group of four students

- 6 Rounded spoonfuls of sand
- 15 ml Sodium silicate solution (use syringe to measure)
- 1 1/2-liter plastic container
- 1 Plastic spoon
- 1 Group label for container (use small piece of paper and tape or sticky-note)
- 1 Paper towel
- Safety goggles

WARNING — This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

Instructions

1. Get one 1/2-liter plastic container for your group. This is your basin.
2. Write your group number and date on the label.
3. Go to the sand station and add 6 spoonfuls of sand to the container.
4. Go to the sodium silicate station. Use the syringe to carefully measure 15 ml of the solution and add it to the container. **SAFETY NOTE: Be careful not to get the sodium silicate solution on your skin or in your eyes. Safety goggles should be worn when handling chemicals.**

5. Gently tap the bowl on the desktop several times to mix the sand and sodium silicate solution. Observe what happens.

6. You can use a spoon to carefully mix the sand and the solution. Then use the spoon (**not your fingers!**) to smooth out the surface of the mixture. Use a paper towel to wipe the sand off the spoon. Throw the paper towel away.

7. When you have completed these tasks, bring your basin to the storage area.

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