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Room:301A

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Hakoniwa volcanology from playing with sand

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Analog experiments are useful for outreach program. Hakoniwa is a small artificial Japanese style garden. Hakoniwa volcanology is an extension of Kitchen volcanology, and named after Japanese garden. Sand is easy to get at any place, for example, in developing countries as well as Japan. Students can carry out the experiments in the outside garden as well as in the indoor room. This paper introduces various analog experiments on volcanology using sand; explosive eruption, pyroclastic cone building, lava flow, constructing volcano, caldera formation, and lahar.

Keywords: Outreach, Analog experiment, kitchen volcanology, Hakoniwa volcanology, sand, eruption