

# The Volcanic “Popcorn”

Perlite: The Environmentally Friendly Raw Material



## A. Main topics

- Environmentally friendly raw material.

## B. targeted audience

- 14-19 years old students (partly for younger children as well).

## C. Key concepts

- Obtaining knowledge on the conditions, processing of perlite and its fields of application together with the promotion of the application of the raw material.
- Analysing key professional literature.
- Fieldwork and factory visits.
- Composing video material and presentations.

## D. Experimental activity

- Presentation of the characteristics of perlite important from its application.
- Application of perlite in practice.

## E. Toolkit material

- Perlite stone samples, grist, expanded perlite for visualization and experiments.
- For studying the expandability of perlite (volcanic „popcorn“): fireproof dish, perlite grist, hand gas burner pistol for heating, safety glasses; pharmacy balance, containers.
- Combustibility investigation: fireproof dish, perlite based thermal insulation material, Styrofoam, gas burner pistol, safety glasses.
- Adsorption of oil products with perlite: expanded, hydrophobized perlite, waste oil, container, filter.
- For constructing hanging gardens: pallet, expanded perlite, potting soil, plants.
- Multimedia tools for creating video films, presentation material (drone, video recorder, photo equipment, etc.)

## F. RM Tutors

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