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.)

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