

Modeling study for K-12 Geoscience education (Part2)

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*/*Background */*

- 1.Geoscience education crisis.
- 2.Misunderstanding for natural phenomena.
- 3.Educational gap: misconception for scholar attainments .

*/*How to study */*

- 1.Modeling-based practice using kitchen materials.
- 2.High-tech tools for measuring and data recording.
- 3.Simplified models and hand-made styles are strongly recommended.
- 4.Examples: wind ripples, sedimentary structures, faults and foldings, limestone cave, earthquake related phenomena, plate tectonics related, tidal currents, crater by an impact, crustal movements, volcanic eruptions, lava flows, etc.

*/*Result */*

- 1.A new conceptual studying method is introduced for geoscience education.
- 2.Process of apparatus making and data measuring are good jobs for students.
- 3.Considering the mechanism of natural phenomena with a practical approach.
- 4.Good opportunity to evaluate student skills for teachers.