

# Which Soil Do We Choose?

**Developer:** Jack Holbrook

Institute: ICASE

Country: UK

**Subject:** Science

**Grade level:** 8-9

**Objectives/competencies:** Students are expected to be able to:

- Seek and select appropriate information related to the study of soil, from the books, computers networks and web pages.
- Explain the advantages and disadvantages of different types of soil.
- Explain density, adsorption and the various properties of soils.
- Put forward a plan of how the density of soil can be determined.
- To cooperate with partners in the group in undertaking an experimental investigation.
- To design and carry out experimental determinations in situ and in the laboratory.
- Decide, with reasons, which field Mr. Ground should buy.

**Curriculum content:** Characteristics of soil

**Kind of activity:** Library search, field visit, laboratory investigation, group discussion to make a justified socio-scientific decision

**Anticipated time:** 4 lessons plus 1 field visit

## Abstract:

Soil is an excellent topic through which to introduce students to fertility problems. It is possible to use simple techniques of analysis, which require careful and detailed work.. Through this approach some difficult concepts in science such as density, physio-adsorption and chemi-adsorption, can be introduced.

Attached files		
1.	<a href="#">Student activities</a>	Describes the scenario in more detail and the tasks the students should perform
2.	<a href="#">Teaching guide</a>	Suggests a teaching approach
3.	<a href="#">Assessment</a>	Gives suggested formative assessment strategies
4.	<a href="#">Teacher's notes</a>	States the theoretical physics and gives the expected calculations