

Food and Agriculture Organization of the United Nations



Soil experiments FOR CHILDREN

LET'S CELEBRATE SOILS AND TAKE A JOURNEY TO DISCOVER THE GROUND BENEATH OUR FEET!





SOIL IS VITAL TO LIFE ON THE PLANET - IT IS CAPABLE OF SUPPORTING PLANT AND TREE LIFE BY PROVIDING THEM WITH NUTRIENTS, WATER AND MINERALS. IT IS HOME TO MILLIONS OF INSECTS, BACTERIA AND SMALL ANIMALS.

It is no secret that children and soil pretty much go hand in hand. Children usually love to find a dirt patch and make some mud and dig or romp in it. While they might find playing in it fun, they may be surprised to learn that soil is the basis for life and growth! Teaching children why **"Caring for the Planet Starts from the Ground"** is one of the major goals of the World Soil Day 2017 communication campaign.



This Soil-Lab Activity Book is designed to give children an insight into soil knowledge. Practitioners, youth leaders and teachers can support children's learning through offering opportunities for them to: learn how to operate a range of tools safely; encounter creatures, plants and objects in their natural environments and in real life situations; undertake practical experiments; and work with a range of materials. Children will learn that without soil we would not be able to grow crops or other useful plants, support livestock, or have materials for building shelter! Healthy soils also store and filter water, recycle nutrients and help us to deal with the negative effects of climate change by storing large amounts of carbon.

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Tips on using the SoilLAB Activity Book with your group

1. INVESTIGATE: Encourage kids to learn how such a thin layer of the Earth's surface can support all life on the planet, and which risks we are taking not caring for soils.

2. SELECT: Participants are encouraged to select the activities that best match their needs, interests, and culture.

3. ACT: Allow enough time for the group to carry out the activities. Support and guide them through the process. Encourage exploration, observation, investigation, problem solving, prediction and decision making when undertaking the activities.

4. DISCUSS: Have participants present the result of their activities to the rest of the group. Do you notice any change of attitude? Encourage participants to find things out and try things out for themselves rather than always having things explained to them. Discuss with them about how their daily activities both depend and affect soil and our lives. Children need to be encouraged

5. *CELEBRATE:* Organize your own celebration for World Soil Day, December 5! Invite families, friends, journalists and community leaders to participate in the celebration.

6. SHARE: Share with us stories, videos, photos, drawings, ideas and suggestions: world-soil-day@fao.org

Age ranges

To help you and your group pick the most appropriate activities, the experiments selected should be suitable for 6 to 15 year olds. However, please note that this range is only indicative. You may find that an experiment listed at one level is suitable for another age group in your particular circumstances. As teachers and youth leaders you should use your judgement and experience to develop an appropriate curriculum for your group or class. This could incorporate additional activities not listed in the SoilLAB Activity Book but which allow you to achieve all the educational requirements.

Caution advice

Dear Teachers/Leaders/Practitioners,

The SoilLAB Activity Book supports you in undertaking educational activities. However, as you will be implementing these activities in different contexts and environments, it is up to you to ensure that the activities you choose are appropriate and safe. Please carefully plan and undertake activities with the support of one or more adults to ensure that participants are safe, especially when near water or fire. When exploring soils, remember to treat nature with respect, minimize your impact and take all garbage with you. Please consider the general precautions and carefully evaluate which other safety issues need to be taken into account before undertaking any activity.



























































The Global Soil Partnership (GSP) was established in December 2012 as a strong interactive partnership to promote sustainable soil management and guarantee healthy and productive soils for a food secure world, as well as support other essential ecosystem services. Awareness raising, advocacy, policy development and capacity development on soils, as well as relevant implementation in the field are among the main GSP activities.



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