

Building A Structure : Building a Soil Profile

Student Name: _____

Activity Due Date: _____

Using products found around your home, construct a soil profile that includes the O, A, E, B, C and R horizons. Use products that accurately represent the characteristics of each horizon as discussed in class and found in the resources provided to you as well as any research you conduct on the internet or in other printed resources.

Your soil profile may be a 2-D or 3-D display, edible, have movement, be stationary, or have any other creative characteristic you can imagine. The goal is that you will be able to describe each horizon's characteristics accurately because of creating this model.

The rubric below will be used for scoring this activity.

CATEGORY	4	3	2	1
Scientific Knowledge	Explanations by individual indicate a clear and accurate understanding of each horizon description and function in the soil profile.	Explanations by individual indicate a relatively accurate understanding of each horizon description and function in the soil profile.	Explanations by individual indicate relatively inaccurate understanding of each horizon description and function in the soil profile.	Explanations by individual do not illustrate much understanding of each horizon description and function in the soil profile.
Information Gathering	Accurate information taken from several sources in a systematic manner.	Accurate information taken from a couple of sources in a systematic manner.	Accurate information taken from a couple of sources but not systematically.	Information taken from only one source and/or information not accurate.
Plan	Plan is neat with clear measurements and labeling for all components.	Plan is neat with clear measurements and labeling for most components.	Plan provides clear measurements and labeling for most components.	Plan does not show measurements clearly or is otherwise inadequately labeled.
Construction - Materials	Appropriate materials were selected and creatively modified in ways that made them even better.	Appropriate materials were selected and there was an attempt at creative modification to make them even better.	Appropriate materials were selected.	Inappropriate materials were selected and contributed to a product that performed poorly.
Construction - Care Taken	Great care taken in construction process so that the structure is neat, attractive and follows plans accurately.	Construction was careful and accurate for the most part, but 1-2 details could have been refined for a more attractive product.	Construction accurately followed the plans, but 3-4 details could have been refined for a more attractive product.	Construction appears careless or haphazard. Many details need refinement for a strong or attractive product.