# A STUDY OF WATER FLOW BASED ON SOIL *DENSITY* AND AIR CONTENT IN DIFFERENT TYPES OF SOIL

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## ABSTRACT

### A STUDY OF WATER FLOW BASED ON SOIL DENSITY AND AIR CONTENT IN DIFFERENT TYPES OF SOIL

Soil is the most important component in ecosystem. It has a lot of function depending on its characteristic. The characteristic are density, nutrient content, air content and more. The main objective of this project is to determine the density of different type of soil and air content in soil. The soil uses are chalky, silty and sandy soil. Studies were conducted by filling the sample into a pvc pipe which is 1 meter long. Then water is let to flow continuously and observe how long time taken for the water to seep through the soil sample thoroughly. Study shows that silty soil is denser than chalky soil and sandy soil. Other than that, the air content soil can also be determined by using milk cup which the bottoms of cup have 8 holes and allow water to flow through soil. Soil where the percentage is higher is more air contain and sandy has a higher air contain than chalky and silty.