

## The Chalk Lab, CaCO<sub>3</sub>

**Purpose:** To determine the number of chalk particles needed to write a message.

**Materials:** Chalk  
Balance  
Blackboard  
paper Towel

**Procedure:** -Wipe a piece of chalk free of dust particles and weigh it  
-Using the chalk, write a very brief message on the blackboard.  
-Wipe the chalk free of dust again  
-Reweigh the chalk

**Observations:** mass of chalk prior to writing \_\_\_\_\_  
mass of chalk after writing \_\_\_\_\_  
mass of chalk used \_\_\_\_\_  
molar mass of chalk \_\_\_\_\_  
moles of chalk used \_\_\_\_\_  
number of particles per mole \_\_\_\_\_  
number of particles used \_\_\_\_\_

**Calculations:**

**Conclusion:**