

# ID of Unknowns

## The Challenge

After obtaining a plastic block from your teacher, use information from this chapter to complete the physical description in the chart below. The colors that you will choose from are **black, clear, gray, paper white, and milky white**.

This is a class project – your entire class is one group and your group will choose just one person who will give me your answers. Who will be responsible to do that? That’s up to your group. By the end of the period, the person who represents your group will give me two things:

1. This page with your answers.
2. The second page with your measurements (in a Data Table) and calculations. No answers on this sheet will be accepted without adequate measurements and calculations on the web site to support them.

NOTE: I’ll be tracking your progress during the class period. Throughout the period, you must demonstrate that you are an active member of the group in order to receive credit. By the way, the person who gives me your answers does not have to be the only one who does the writing.

*ADDITIONAL NOTE:* Success of this activity depends on your ability to take accurate measurements, to make valid estimations, and to apply rules for significant figures in calculations, as well as your ability to communicate as a group. Have fun!

## FINAL ANSWER

Block "Name"	Density (g/cm <sup>3</sup> )	Color of Block
Pomegranate	0.541	
Lemon	0.967	
Kiwi	0.910	
Mango	1.17	
Papaya	1.42	

DATA TABLE: Measurements

CALCULATIONS: (Make sure you include all units and CORRECT problem solving steps! You may also write on the back.)