



Type your name below and select Start Game to begin.

Critical Thinker

Clear

START GAME



SCIENCE DETECTIVE®

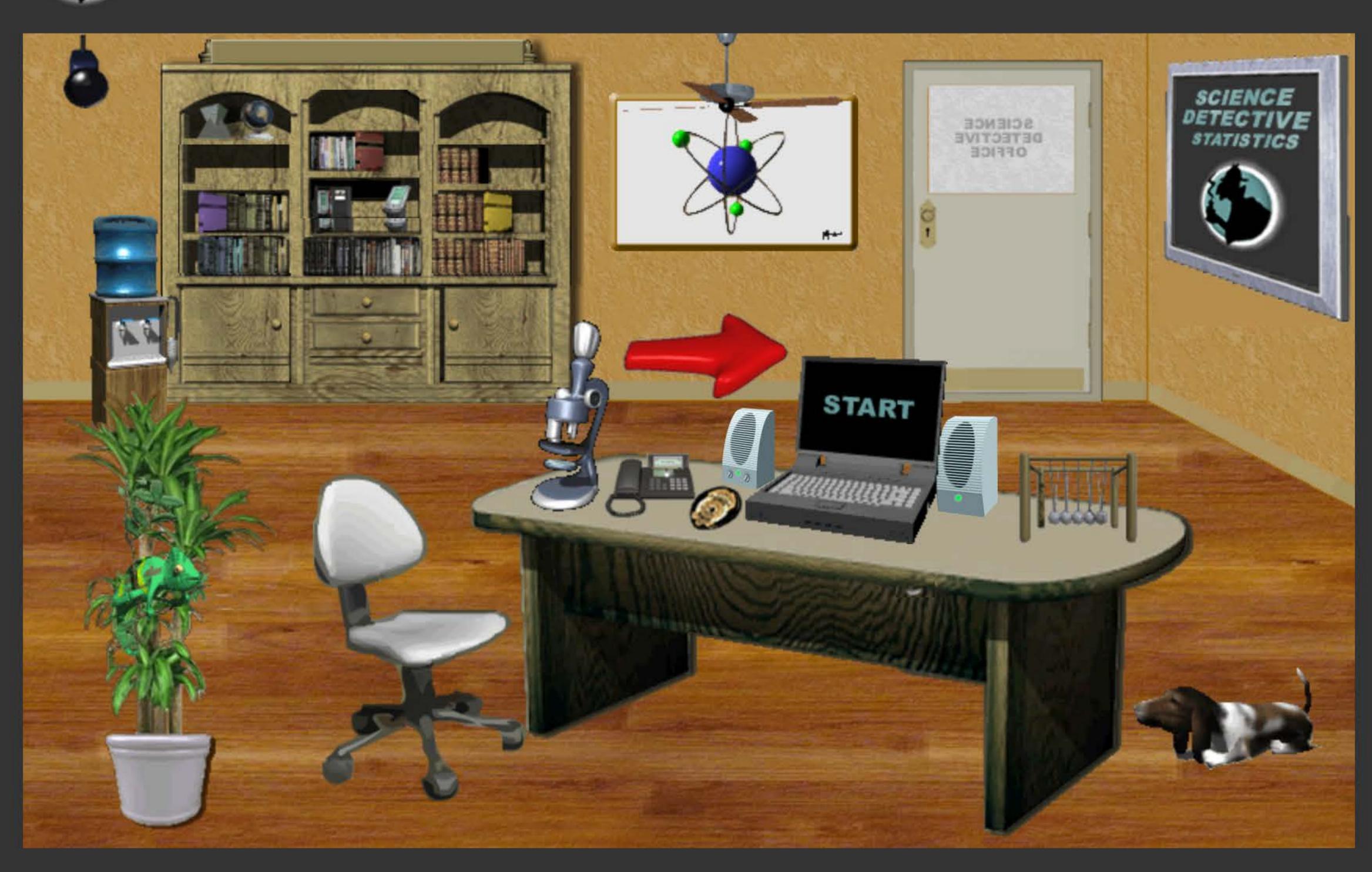
INTRO

CASES

STATS

HELP

NEW USER



Welcome, Detective Critical Thinker!

QUICK INSTRUCTIONS:

Select a Case File button from the list below to investigate a case. Select the Status button to restart a case.

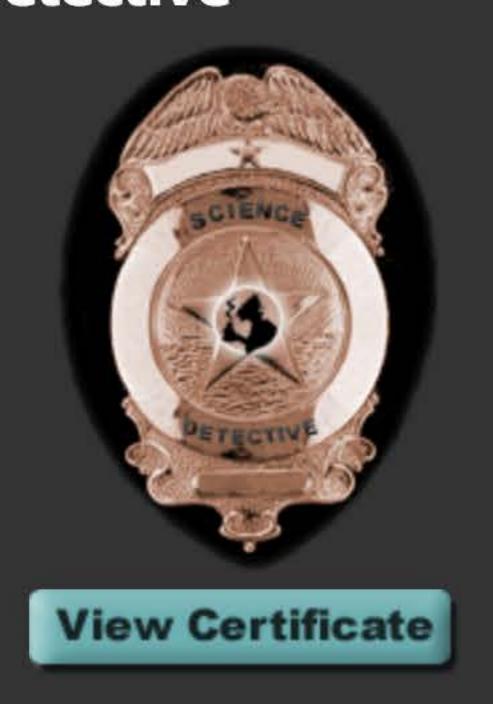
Try to earn all 85,900 points!



#	CASE FILE	STATUS	TOPIC	TRIES	BADGE PTS	SCORE (%)
1.	Measuring Matter: Mass, Volume, and Density	Complete	Physical Science	1	1700	100
2.	Physical and Chemical Properties of Matter	Incomplete	Physical Science	1		
3.	Physical and Chemical Changes in Matter		Physical Science			
4.	Atoms, Elements, and Compounds		Physical Science			
5.	Chemicals: Helpful and Harmful		Physical Science			
			Dhusiasi			

Level 2 Progress Meter Total Points 1700

Rank: Official 1-Star Junior Detective



HELP NEW USER

PLAYER POINTS

300 / 1700 pts.



Everything in our world is made up of matter. Your pencil, a snowball, orange juice, and the air around you are examples of matter. Matter is anything that has mass and takes up space. The mass, weight, volume, and density of any type of matter can be measured.

The amount of matter that makes up an object is its mass. Even though the amount of mass affects the weight of an object, mass and weight are not the same.

Weight is a measure of the pull of gravity on an object. Weight changes as the pull of gravity changes. If you took a book to the moon, the weight of the book would be less because on the moon the pull of gravity is less. However, the mass of a book on the moon would not change, because the amount of matter would stay the same. Scientists measure mass in units of grams (g). A textbook has a mass of approximately 1 kilogram, which is equal to 1,000 grams.

The amount of space occupied by an object is its volume. You can fit more dimes in your pocket than nickels, because the dimes take up less space. Therefore, a nickel's volume is greater than a dime's volume. Volume is measured in cubic centimeters or milliliters. To measure the volume of a three-dimensional object such as a box, you first need to measure the length, width, and height of the box. Use the formula in the Box Volume table to review the volume of Box A and then find the volume of Box B

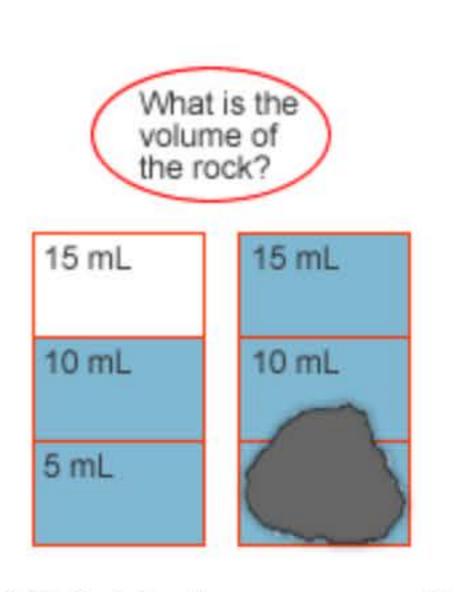
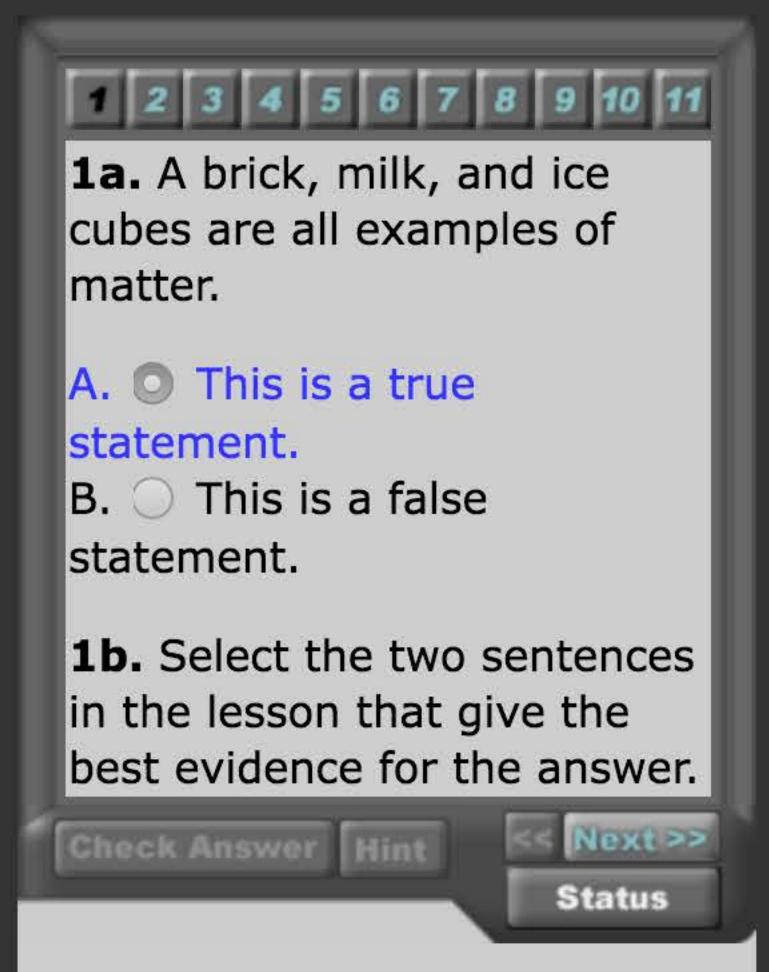


Image △ ▽



Correct Answer Great Job, Detective!

Explanation

Matter has mass, takes up space, and can be measured. Milk, for example, is a liquid that takes up space and can be measured in

Scoring Statistics

All Activity-based scoring data comes from your last attempt.

Critical Thinker

Overall Scoring Summary							
AVERAGE SCORE	HIGH SCORE	LOW SCORE	ACTIVITIES COMPLETED	UNFINISHED ACTIVITIES	UNATTEMPTED ACTIVITIES		
100%	100%	100%	1	1	43		

Overall Scoring Details (click Activity name for more specific details)

TOPIC ACTIVITY STATUS ATTEMPTS TOTAL CORRECT PARTIALLY INCORRECT HIN

#	TOPIC	ACTIVITY	STATUS	ATTEMPTS	QUESTIONS	CORRECT	CORRECT	INCORRECT	HINTS	POINTS	SCORE
1	Physical Science	Measuring Matter: Mass, Volume, and Density	Complete	1	11	11	0	0	0 of 11	1700/1700	100%
	Physical Science	li hamical I	Incomplete	1	11				0 of 11		



Monday, December 7, 2015

Congratulations, Detective!

This certifies that **Critical Thinker** successfully demonstrated higher-order thinking skills.





Official 1-Star Junior Detective



Science Detective A1

by The Critical Thinking Co.™



Back to Cases