



Type your name below and select Start Game to begin.

Critical Thinker

Clear

START GAME



SCIENCE DETECTIVE®

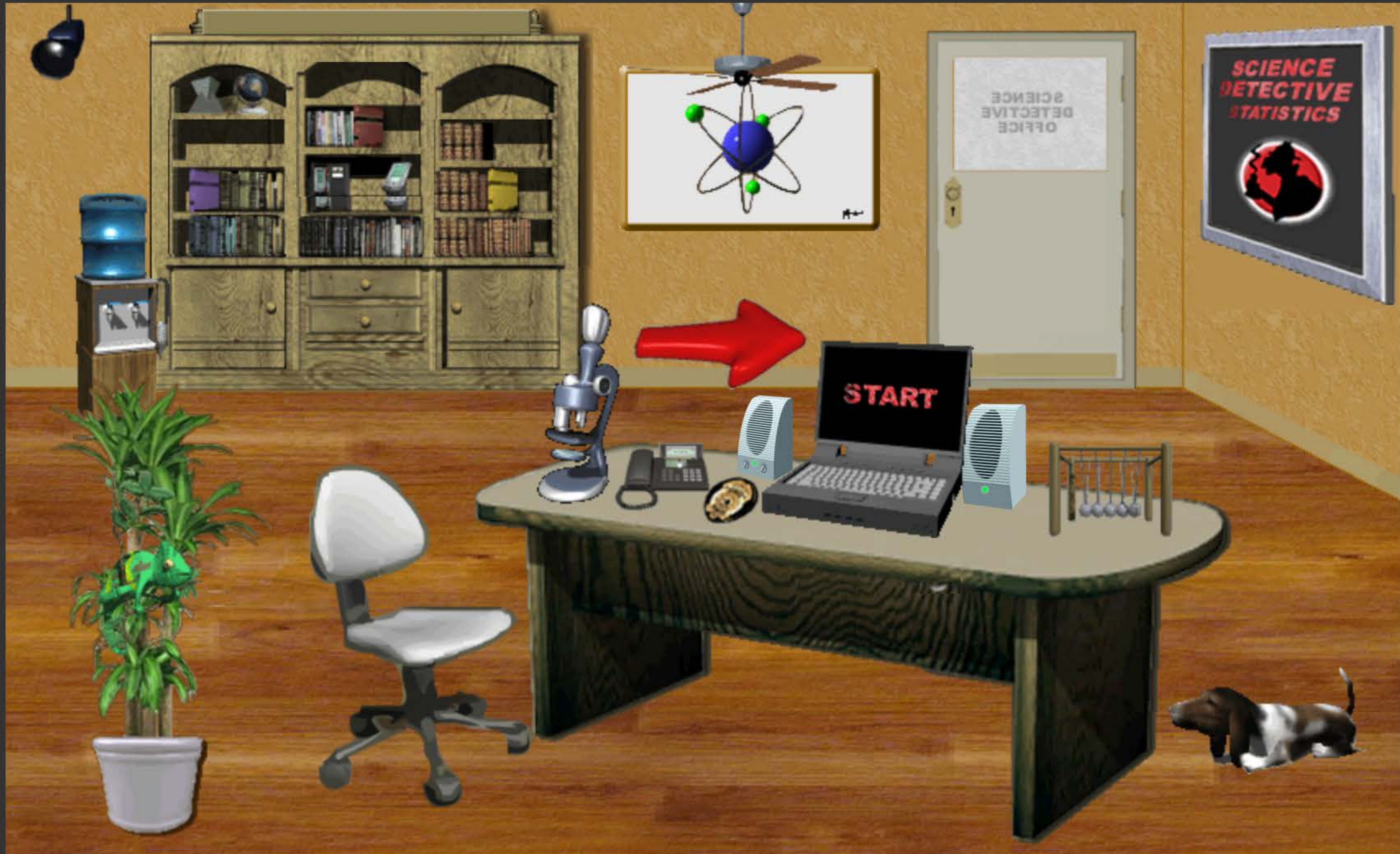
INTRO

CASES

STATS

HELP

NEW USER





Welcome, Detective Critical Thinker!

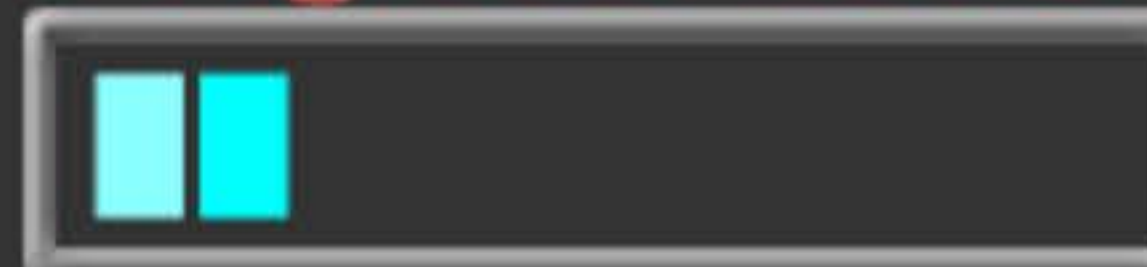
QUICK INSTRUCTIONS:

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 51,900 points!



Level 3

Progress Meter



Total Points

2220

Rank:

Official 2-Star Junior Detective



[View Certificate](#)

#	CASE FILE	STATUS	TOPIC	TRIES	BADGE PTS	SCORE (%)
1.	Observable Physical Properties of Objects & Materials	Complete	Physical Science	1	1120	93
2.	Measuring Physical Properties	Complete	Physical Science	1	1100	92
3.	Classification of Matter	Incomplete	Physical Science	1		
4.	States of Matter		Physical Science			
5.	Change of Phase		Physical Science			
6.	Position, Distance, and Motion		Physical Science			



1. Observable Physical Properties of Objects & Materials

Have you ever seen the color of a snowflake? Have you felt the softness of a pillow or the roughness of sandpaper? These qualities that describe objects or materials are their **properties**.

Physical properties are properties that we can easily observe with our senses—by seeing, hearing, touching, or smelling. Color, hardness, texture, size, shape, and smell are physical properties.

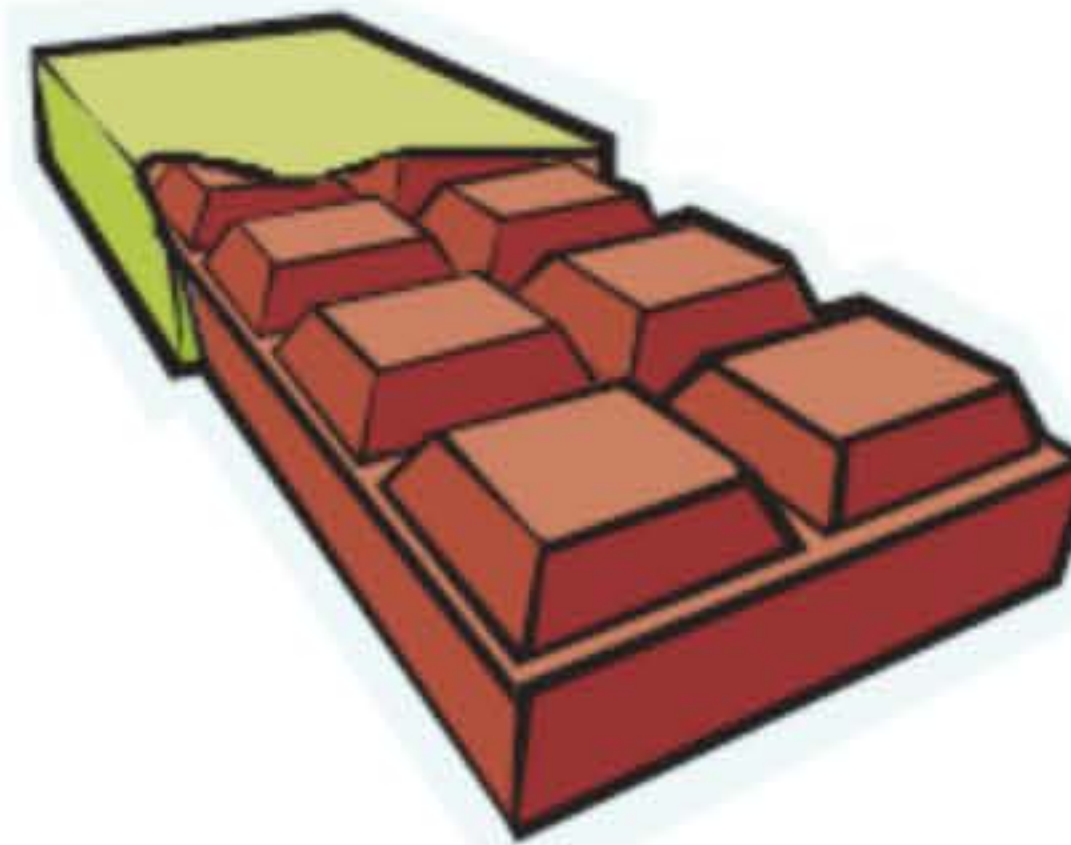
Physical properties are helpful when we need to identify substances. Sometimes two different substances can appear the same until we observe them more closely. For example, both salt and sugar are white, are made up of small crystals, and look grainy. You might not be able to tell them apart by just looking, though. A piece of brown plastic might look just like a piece of chocolate. However, they melt at different temperatures. If you hold them in your hand awhile, you'll see which is the real chocolate by the mess it makes!

The temperature at which a substance starts changing from solid to liquid is its **melting point**. When a substance boils, it is at its **boiling point**. The melting point and the boiling point are physical properties of a substance. Some melting and boiling points are listed below.

Melting points, boiling points, and other kinds of information can be displayed by

Text Size

Image



1 2 3 4 5 6 7 8 9

1a. An object's size is a physical property.

A. This is a true statement.

B. This is a false statement.

1b. Select the paragraph in the lesson that gives the best evidence for the answer.

[Check Answer](#)[<< Next >>](#)[Status](#)

Correct Answer

Great Job, Detective!

Explanation

Physical properties (like size, color, or hardness) are things that we can easily observe with our senses (seeing, hearing, touching, smelling, or tasting).



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
93%	93%	92%	2	1	38

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

#	TOPIC	ACTIVITY	STATUS	ATTEMPTS	TOTAL QUESTIONS	CORRECT	PARTIALLY CORRECT	INCORRECT	HINTS	POINTS	SCORE
<u>1</u>	Physical Science	Observable Physical Properties of Objects & Materials	Complete	1	9	8	0	1	0 of 5	1120/1200	93%
<u>2</u>	Physical Science	Measuring Physical Properties	Complete	1	10	9	0	1	0 of 5	1100/1200	92%
<u>3</u>	Physical Science	Classification of Matter	Incomplete	1	9				0 of 2		