

Name:

Date:

PROPERTIES OF MATTER

HARDNESS

Activity 1

Let's test hardness.

A) You need:

- two pieces of chocolate



- two pieces of plastic (e.g. two plastic rulers)



- two pieces of wood (e.g. two kitchen tools)



- some play dough



- two pieces of wax (e.g. two candles)



- two pieces of metal (e.g. metal rulers)



B) Instructions:

1. Press one piece of each material so that they are parallel to each other on the play dough.
2. Take the leftover chocolate and try to dent or scratch all the materials placed on the play dough and record the results on the table below. Mark with a tick (✓) or a cross (✗).
3. Now use the other materials to do the same and record the results.

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	chocolate	metal	plastic	wax	wood
Materials on the play dough					
Materials used to dent or scratch					
chocolate					
metal					
plastic					
wax					
wood					

C) Which is the hardest material? _____

D) Which is the least hard material? _____

E) Are the materials tested: solids, liquids or gases? _____

F) Could you do the same with liquids or gases? _____

G) DEFINITION: _____

