

METALS MATTER - WORKSHEET 1 – VIRTUAL HOME TOUR

Student name:

Class:

Date:

Insert the Down to Earth disc in the CD Rom.

Click on Metals Matter.

Click on Virtual Home tour. Select a room to scan.

1. Complete the following table for **TWO** selected rooms:

a. BATHROOM

Item in the bathroom	List of metals used in the item
toilet	
bath	
hairdryer	
door handle	
bath tap	
shampoo bottles	
watch	
toothpaste	
soap	
deodorant	

b. KITCHEN

Item in the kitchen	List of metals used in the item
oven	
pepper and salt shaker	
plates	
cutlery	
mobile phone	
rubber gloves	
electric mixer	
windows	
toaster	
coffee percolator	

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c. BEDROOM

Item in the bedroom	List of metals used in the item
chair	
stereo system	
television	
baseball bat	
dumb-bells	
poster on wall	
drum kit	
weights	
computer	
golf clubs	

d. EXTERIOR

Item outside the house	List of metals used in the item
ladder	
bike	
car	
scooter	
fertiliser	
windows	
paint	
scooter	
tool kit	
eaves	

2. Study your completed tables. Which metal is most commonly used in items found in this house?

3. Find the ceramic pots outside the house. Which elements do you think might be needed to manufacture these pots? (Hint: look for similar items in the kitchen).

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4. Make a list of five elements you are unfamiliar with. Click on information to write a description of these elements. For example: “Aluminium comes from the mineral bauxite”

- (i) _____

- (ii) _____

- (iii) _____

- (iv) _____

- (v) _____

5. Click on the Periodic Table. Click on each element to complete the **missing** information in the table and to answer true or false. In some cases you will have to click on **>more info<** on your screen.

<u>Element in the periodic table</u>	<u>Element symbol and atomic number</u>		<u>True (T) or False (F)</u>
Aluminium is found in computers	Al	13	
Silicon is found in toothpaste	Si	14	
Lithium is a heavy metal		3	
Technetium is a good conductor of electricity	Tc		
Titanium is found in the mineral sand rutile		22	
The compounds of this metal are sensitive to light	Ag		
Potassium is used to make fireworks	K		
Boron is found in every room of the house	B	5	
This metal is found in computers and in the stove	Au		
Nickel is currently mined only in Western Australia		28	

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6. Aluminium and magnesium have similar properties. Make a list of the objects in the house which contain these metals.

7. If the price of aluminium increased dramatically, or there was a worldwide shortage of aluminium, would it be possible to substitute magnesium in the household objects listed above? Use evidence from **>more info<** on the periodic table to help support your answer.

Click on **Information** for the next two answers.

8. List three elements on the periodic table which are classified as metals.

9. List three elements on the periodic table which are common non-metals.

10. Click on **Information** and then **Copper Applications** in health and the environment. Summarize the importance of copper to our lifestyle. What can be done to ensure the sustainable use of copper?

