

# First Year Science

## Chemistry 1

### *Model of Matter*

Name:- \_\_\_\_\_

Class:- \_\_\_\_\_

Teacher:- \_\_\_\_\_

## Homework

Activity 1 - / 15

Activity 2 - / 8

# Model of Matter

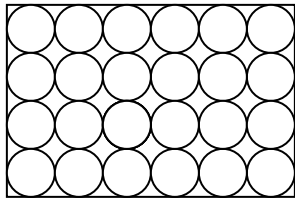
Homework Activity 1

1.1 - 1.5

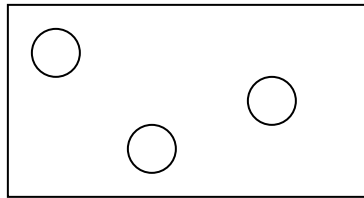


1. Here are 3 diagrams.

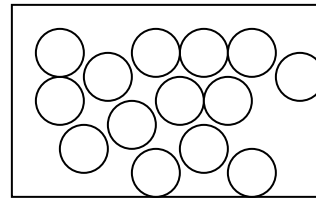
They show the particles in a solid, a liquid and a gas.



A



B



C

a) A shows a \_\_\_\_\_  
B shows a \_\_\_\_\_  
C shows a \_\_\_\_\_ (1)

b) The fastest particles are in \_\_\_\_\_ (1)

c) The particles vibrate in \_\_\_\_\_ (1)

If it gets hotter the particles will \_\_\_\_\_  
\_\_\_\_\_ (1)

If it gets colder the particles will \_\_\_\_\_  
\_\_\_\_\_ (1)

2. Think about these

a)  $50 \text{ cm}^3$  of alcohol +  $50 \text{ cm}^3$  of water =  $95 \text{ cm}^3$  of mixture

WHY? \_\_\_\_\_

\_\_\_\_\_ (2)

b) Party balloons always go down even if tied tightly.

WHY? \_\_\_\_\_

\_\_\_\_\_ (2)

c) The smell of a gas leak fills the whole room quickly

WHY? \_\_\_\_\_

\_\_\_\_\_ (2)

3. Fill in the missing words to make a short note.

You can select from the following wordbank if you wish.

solid liquid gas quickly slowly faster slower change places  
from side to side vibrate more less

## What I have learned about Particles

Particles are furthest apart in a \_\_\_\_\_ and closest together in a \_\_\_\_\_. Particles in a gas move very \_\_\_\_\_. If you heat a solid the particles move \_\_\_\_\_ and \_\_\_\_\_. If you cool down a material the particles move \_\_\_\_\_ and \_\_\_\_\_.

(4)

Total = (15)

# Model of Matter

## Homework Activity 2

1.7-1.9



1.



Explain how the height of a hot air balloon can be controlled.

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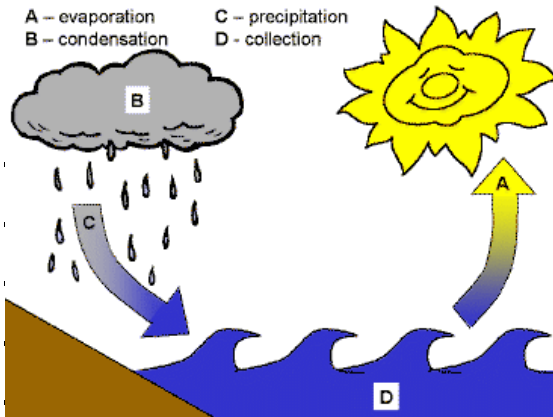
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(2)

2.



A – evaporation  
B – condensation  
C – precipitation  
D – collection

Describe the water cycle.

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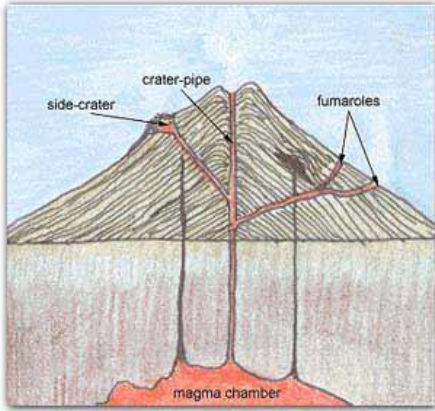
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(4)

3



Explain how freezing happens during volcanic eruptions.

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(2)

Total = (8)