



3055 BA SANGAM COLLEGE

PH: 6674003/9264117 E-mail: basangam@connect.com.fj



Week 11

School: Ba Sangam College

Name: _____

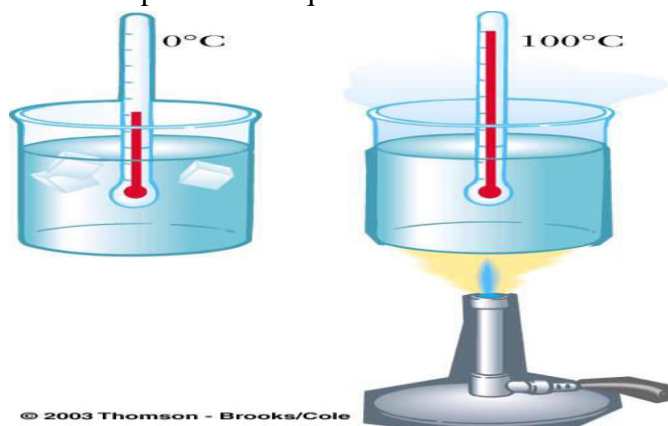
Subject: Basic Science

Year/Level: 9

Strand 2	Matter
Sub Strand 2.1	Investigating Matter
Content Learning Outcome	Describe the structure and properties of matter using particle model of atoms and molecules and account for the behavior of matter when heat is added or removed.

Lesson Notes – Investigating

I. Expansion in liquids



Method

- ✚ set up an experiment as shown above
- ✚ note down the original temperature reading in each case
- ✚ let the thermometer be in the beaker for 3 minutes before you take the final reading
- ✚ note down all observation

Results

- ❖ the reading in beaker A was lower than the original reading
- ❖ the reading in beaker B was higher than the original reading

Conclusion

When heat is available expansion takes place and when heat is not available contraction takes place. So the mercury in the thermometer contracts in beaker A.

The Mercury in the thermometer expand in beaker B as it was hot.

Exercise

1. a. What happens to liquids when it is heated?

(1 mark)

b. Explain your answer in part (a) above in terms of particle model of matter.

(2 marks)

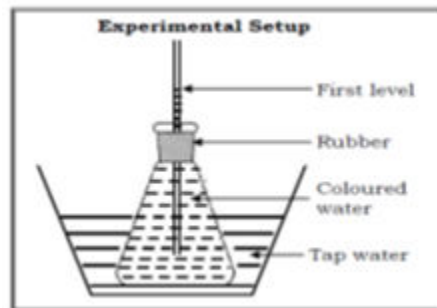
2 a. What happens to liquids when heat is not available?

(1 mark)

b. Explain your answer to part (b) above in terms of particle model of matter.

2 marks)

3. Given below is an experimental set up done by Year 9 students. Use the diagram to answer the questions that follow.



a. Write an observation made when tap water is heated.

(1 mark)

b. Use the particle model to explain your answer in part a.

(2 marks)

