

2021



SEMESTER ONE 2021
Investigating Science Test:
ANSWER BOOKLET

Solutions

NAME: _____
FORM: 7Sci-1 DATE: 2021

Multiple Choice

/10

Short Answer

/20

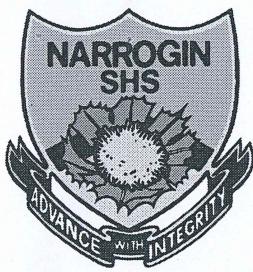
Total

/30

SECTION ONE: Multiple choice answers

Cross (X) through the correct answer.

1	a	b	c	d
2	a	b	c	d
3	a	b	c	d
4	a	b	c	d
5	a	b	c	d
6	a	b	c	d
7	a	b	c	d
8	a	b	c	d
9	a	b	c	d
10	a	b	c	d



Year 7 Science Investigating Test

SECTION 1: MULTIPLE CHOICE (1 mark each)

Circle your answer on the multiple choice answer sheet.

1. Which is the **most important rule** of the science laboratory?
 - a) Never run or muck around.
 - b) Do not eat or bring food into a science laboratory.
 - c) Wear appropriate footwear and clothing.
 - d) Always follow your teachers' instructions.

2. Which of these is **false**?
 - a) You should always wear closed in shoes in science laboratories.
 - b) You should always sit down when doing experiments.
 - c) You should never put broken glass in the bin.
 - d) You must report all accidents, spills or breakages to your teacher before cleaning them up.

3. A chemical bottle has the following symbol on its label.



Which of the following is **true**?

- a) The liquid must not be removed from the laboratory.
 - b) The liquid is corrosive and may burn you if it gets on your skin.
 - c) The liquid is safe to taste.
 - d) The liquid is flammable and may catch fire if used near a flame.

4. What should you do if someone gets **chemicals in their eye**?
 - a) Make them put safety glasses on.
 - b) Wash their eyes out with water.
 - c) Make them keep their eyes closed and cover with a bandage.
 - d) Let them rub their eyes to make tears come.

5. Which of these is **most accurate** to measure 50mL of water?
 - a) A beaker
 - b) A measuring cylinder.
 - c) A triple beam balance.
 - d) A conical flask.

6. Apparatus means

- a) all the materials and equipment you will use for an experiment.
- b) the step-by-step instructions
- c) a drawing of your experiment.
- d) tables or graphs showing results

7. When you light a Bunsen burner, you should

- a) turn on the gas tap, then light the match.
- b) make sure the air hole is open.
- c) check the hose for leaks first.
- d) place the lit match in the air hole.

8. What colour is the safety flame for a Bunsen burner?

- a) blue
- b) green
- c) red
- d) yellow

9. The independent (or experimental) variable is the factor in an experiment that is

- a) changed deliberately to find its effect.
- b) measured in the results.
- c) kept the same for each part of the experiment, to make it a fair test.
- d) unable to be controlled or kept the same.

10. Which of the following can be put down the sink, at school or at home?

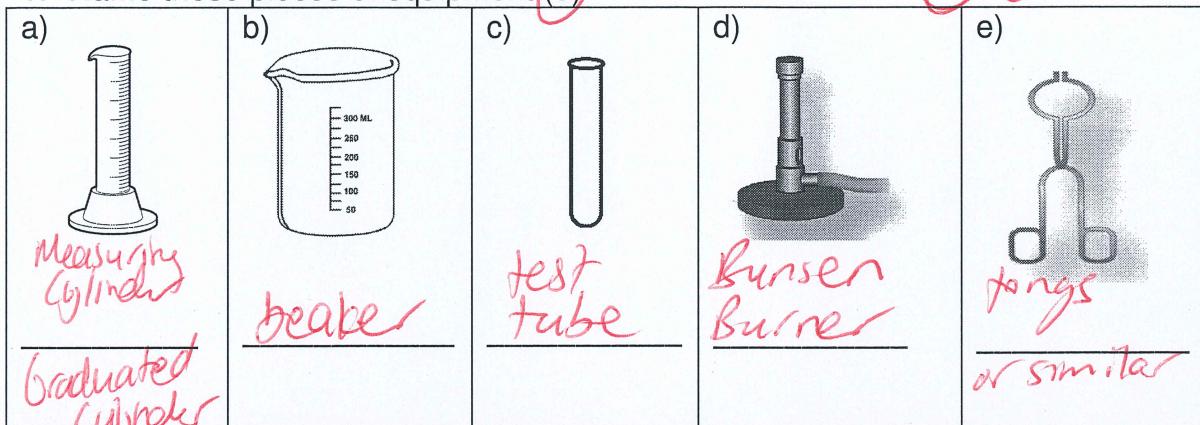
- a) cooking oil
- b) kerosene
- c) paint
- d) water

SECTION 2: Short Answer

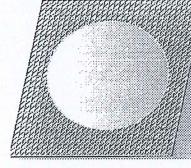
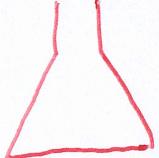
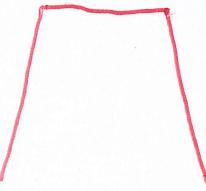
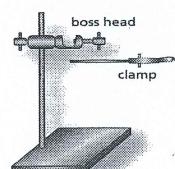
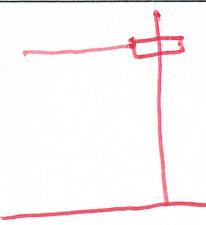
(20 marks)

Answer the questions in the spaces provided.

1. Name these pieces of equipment (5)



2. Draw a scientific diagram for these pieces of equipment (5)

Equipment	Scientific diagram
 Filter funnel	
 Gauze Mat	
 Conical flask	
 Tripod	
 Retort Stand	 <i>① each or similar</i>

3. Write the lab report heading that matches each description (5)

- a) A statement that describes why the experiment is being done

Aim

- b) Explains how to carry out the experiment

Method / Procedure

- c) A record of data, using tables and graphs where possible

Results

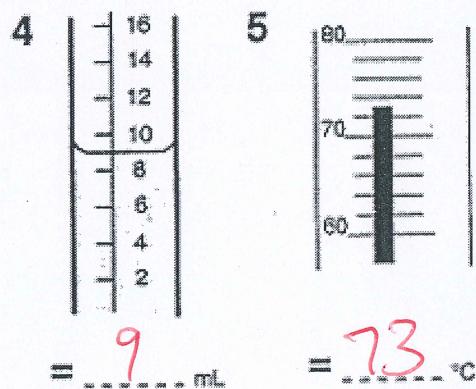
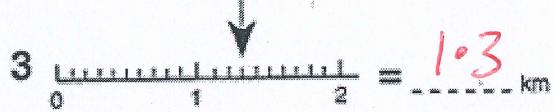
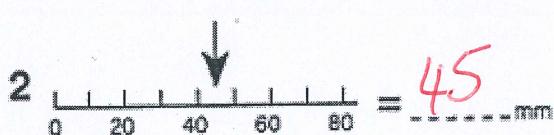
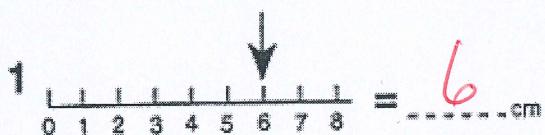
- d) Analysis of the results and the method used

Discussion

- e) A statement that summarises the findings of the experiment

Conclusion

4. Record the measurement for each of the following (5)



END OF TEST