Task 1: Working as a Scientist Test
Year 7 Science
Kolbe Catholic College

Name: _____
Teacher: _____

Mark: _____/42

Materials:

- Pen
- Pencil
- Ruler

You should try to fill all of the available lines when answering written questions. Remember to draw diagrams in pencil with a ruler. No notes or calculator permitted.

Working as a Scientist Test

1. Choose two students doing the incorrect thing in the picture below and write their name, what rule they are breaking, and why it is a risk to their safety. (4 marks)

1. (1) Identifies lab rule being broken
(1) Explains why breaking the rule poses a safety risk

2. _____
_____
_____

2. Describe the difference between physics and chemistry, giving examples of each. (3 marks)

(1) Chemistry is the study of chemicals and compounds and how they react together
(1) Physics is the study of force and motion.
(1) Provides examples for both

For Questions 3-8, circle the correct response. (5 marks)

3. You have been injured in the laboratory, first you should:
   a. Visit Student Reception after class
   b. See a Doctor after school
   c. Tell your Science Teacher
   d. Apply first aid yourself

4. If you do not understand a direction or part of an experiment you should:
   a. Figure it out as you do the experiment
   b. Try different things until something works
   c. Ask the teacher before starting
   d. Skip the step you are unsure of

5. You are heating a beaker and now want to pick it up. You should:
   a. Use a rag or paper towel
   b. Pick up the end that looks cooler
   c. Use a heat-proof glove or tongs
   d. Pour cold water in it so it is cool enough to pick up

6. To change a Bunsen Burner from Safety Flame to Heat Flame you should:
   a. Turn the air hole so it opens
   b. Turn the air hole so it closes
   c. Turn the gas tap so it opens
   d. Turn the gas tap so it closes

7. True of False: Hot glass looks the same as cold glass
   a. True
   b. False

8. True or False: It is okay to leave a Bunsen Burner unattended if it is on Safety Flame
   a. True
   b. False

9. Name the following pieces of Science Equipment and their use (10 marks)

a.

Name: Filter funnel

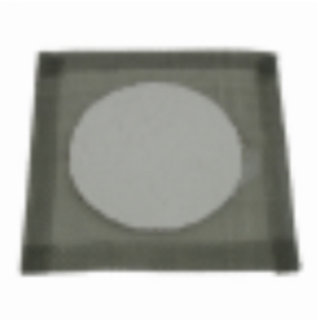
Use: Transfer liquid from one container to another

b.

Name: Test tube stand

Use: Holding multiple test tubes upright

c.



Name: Wire mat / Gauze mat

Use: Hold beaker above burner and distribute heat evenly

d.

Name: Tongs

Use: Picking up hot equipment

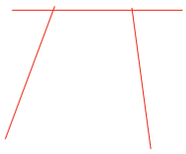
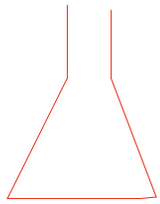
e.

Name: Boss head

Use: Connecting clamp to retort stand

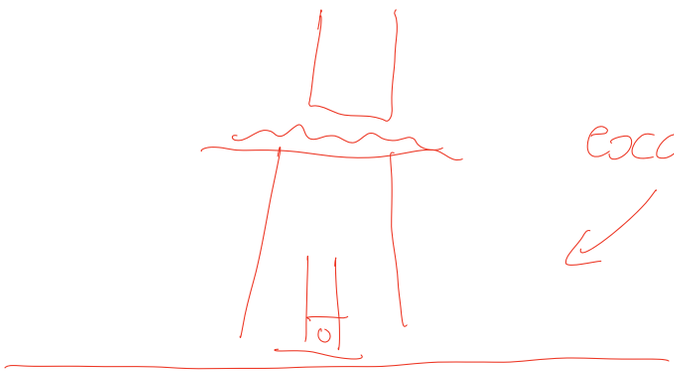
10. Draw a scientific diagram of the following pieces of science equipment. Make sure your drawing takes up the space provided. (4 marks)

-1 mark if no pencil/ruler

A) Tripod 	B) Conical Flask 
C) Clamp 	D) Watch glass 

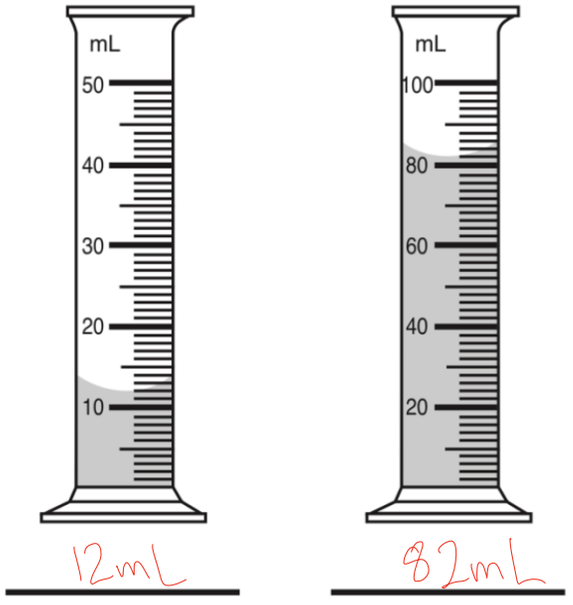
11. Mr Wheeler needs one coffee everyday to survive year 7 teaching but the electricity is out at Kolbe! Draw a labeled scientific drawing of how he can use science equipment to safely boil water in the science lab. (5 marks)

Less one mark for
- set up not possible
- not in pencil
- ruler not used
- incorrect drawing/label for piece of equipment



12. Label the parts of the Bunsen Burner below (3 marks)

13. Write the amount of liquid in the measuring cylinders below (2 marks)



14. Explain the difference between observations and inferences using examples from the image below (6 marks)

√√√ Definition of inference, observation, qualitative and quantitative
√√ Correct examples of each of the above

END OF TEST