

Name :

Class:

Assessment in SPN21

Date:



## Stage 2 Science: Laboratory Skills ( Practical Theory ) Assessment Task 2

**Scientific Skills that are addressed in this assessment:**

- Applying Knowledge and Understanding on Practical Theory as Laboratory Skill.

This assessment addresses the Year 7-8 syllabus topic 1 'Introducing Science'. This is a Stage 2 Laboratory / Practical Skill Assessment 2.

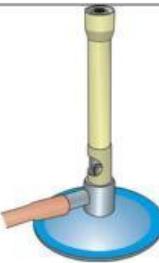
### Topic 1: Introducing Science

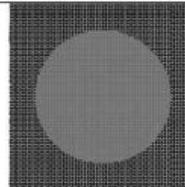
#### Instruction to Candidates :

ANSWER ALL QUESTIONS.

#### Section 1

Identify the Laboratory Apparatus / instruments :

Item	Diagram	Name of piece of equipment
1		
2		
3		
4		

5		
6		
7		
8		
9		
10		
11		

12		
13		
14		
15		

## Section 2

At this section, you are asked to measure certain volume of water using measuring cylinder. The station will indicate the accuracy of the cylinder you are using. You are provided with a measuring cylinder, beaker of water, Disposable Dropper.

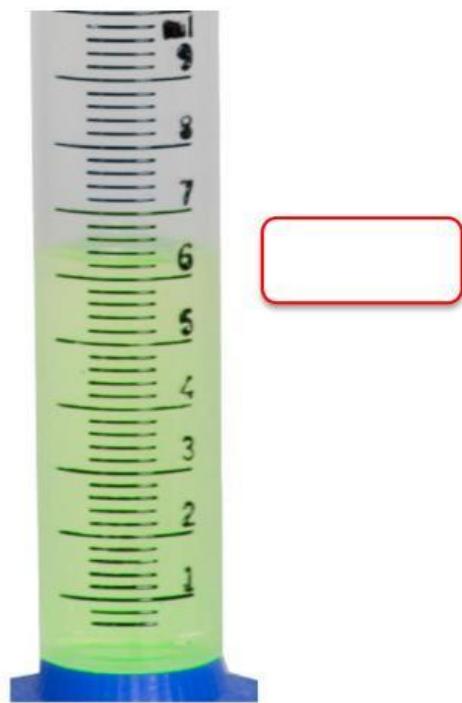
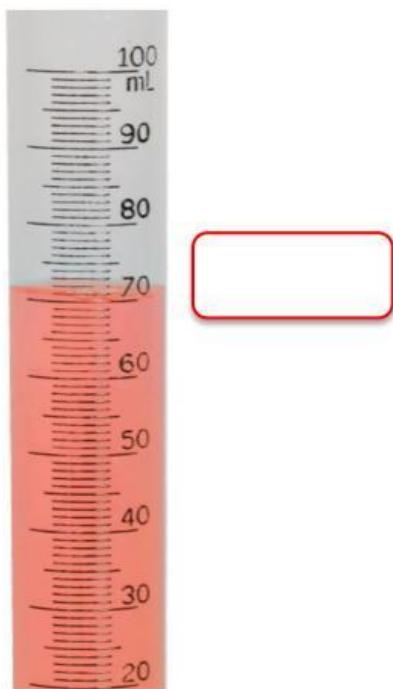
### Question 1

Which apparatus you will use to transfer water from beaker to measuring cylinder?

### Question 2

Which apparatus you will use to measure volume of water (liquid)?

What are the Volume readings shown below?

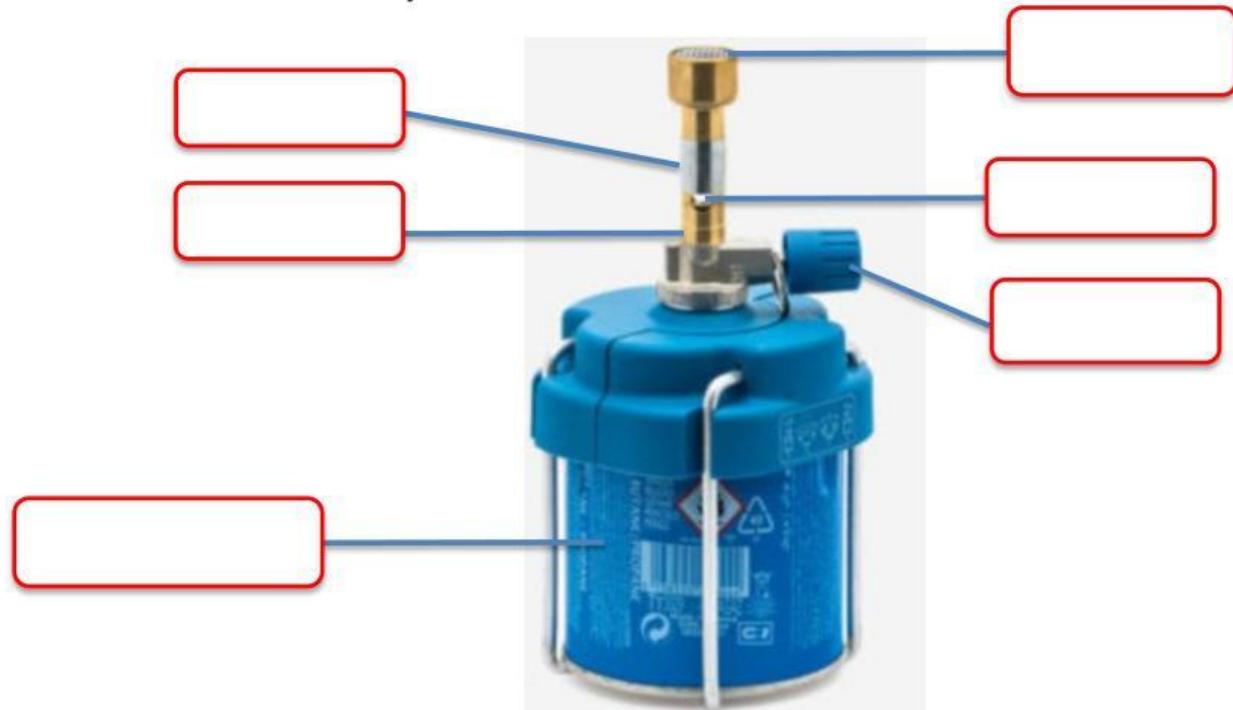


### **Section 3**

At this Section, you are asked to light a Bunsen burner safely and to identify parts of Laboratory Gas burner.

#### **Question 1**

Parts of Laboratory Gas Burner.



#### **Question 2**

Proper Steps to Light a Laboratory Gas Burner.

Step 1	
Step 2	
Step 3	
Step 4	
Step 5	

## Section 4

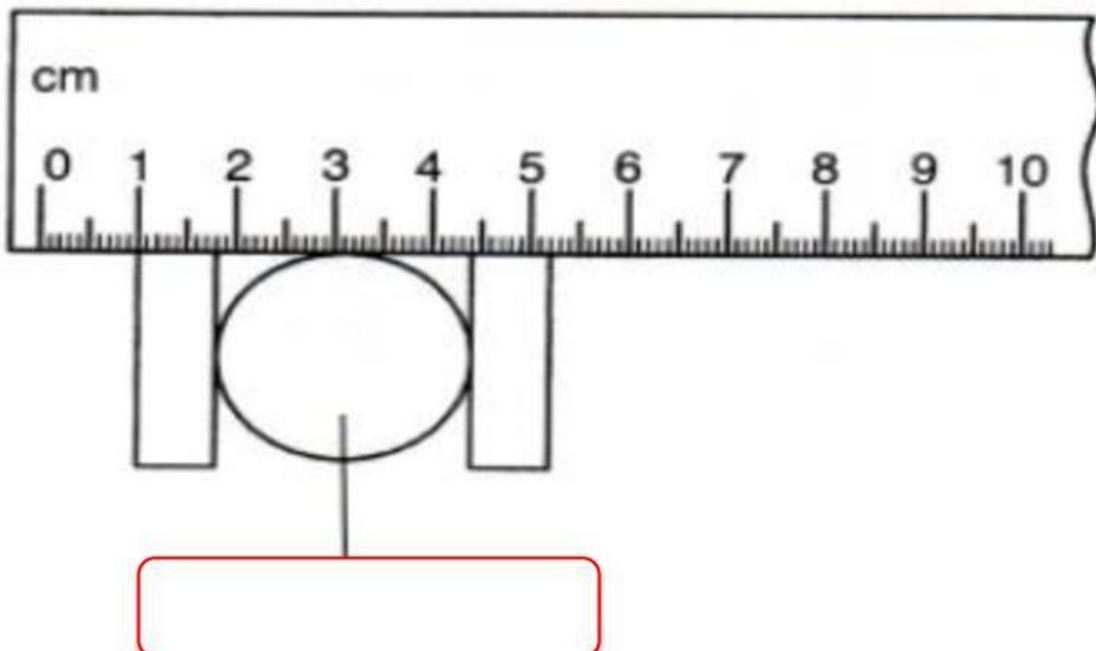
At this station you are asked to measure the thickness of a Thick Book. You are provided with a Vernier calliper, school ruler, metre ruler and measuring tape.

### Question 1

What piece of equipment gives the most accurate measurement?

### Question 2

What is the reading in the diagram shown below ?



## Station 5

At this Section you are asked to measure volume of an irregular object (a stone). You are provided the object, thread, block of wood (a stand), a beaker of water, a measuring cylinder and a Eureka can (density can).



Figure; Displacement can plastic

First decide on the correct order of the method by writing 1,2,3,4 and 5 in the left hand column of the table below..

Correct order	Steps
	When the water has stopped flowing, measure the volume of water collected in the measuring cylinder.
	Make sure the measuring cylinder is placed beneath the Eureka can.
	Tie the strong around the rock to lower it gently into the Eureka can so there are no splashes (loss of water).
	Place the Eureka can on the Tripod Stand.
	Fill the Eureka can with water until excess water flows out of its spout into a beaker. Remove the beaker when the water stops flowing into it.