

Micro-Teaching Lesson plan-3

I. Preliminary Informations-

Page No. :

Name of the student Teacher : K. Naga Chandrika

Roll No : 30

Subject : physical science.

class : X

Unit : Measurement of length

Topic : Screw Gauge

Date : 18-3-2017

Name of the Supervisor : Mrs. P. Prasanthi madam

II. Teaching skill:- Skill of explaining.

Content Analysis	Teacher's activity	Pupils activity	Blackboard writing & Aids used	Component Behaviour
<p>Screw Guage is used to measure the thickness of the thin glass plate, wire chalk pieces, small spheres etc.</p>	<p>Any one of you observed screw any time</p> <p>I will show a screw Guage now. All of you observe the screw Guage.</p>	<p>Yes mam.</p>	<p>30000 kind.</p>	<p>30000 kind.</p>

Content Analysis	Teacher's activity	Pupils activity	Blackboard writing or Aids used	Component behaviour
<p><u>Principle of a Screw gauge</u>:- Screw gauge works on the principle of a screw in a nut and hence it is called screw gauge. Screw gauge is used to measure the thickness of the thin glass plate and diameter of the wire or a small sphere.</p>	<p>" showing the Screw gauge." Showing the nut, what do you find similar to this part? How do you fix the screw? In this instrument also same principle is used. So this is known as screw gauge.</p>	<p>Screw. By rotating</p>	<p>Screw gauge</p>	<p>Component behaviour</p>

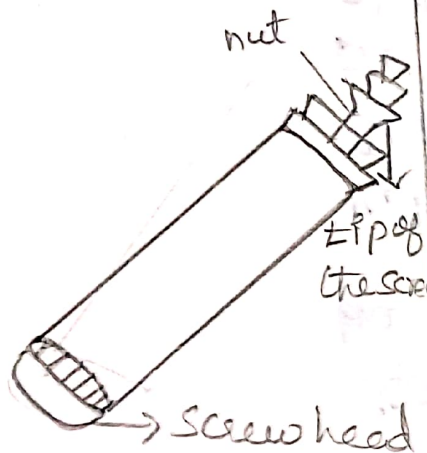
Content Analysis

Teacher's activity

Pupils activity

Black board writing & Aids used

Component behaviour.



what instrument do you use to measure length

How do you measure water milk etc

"Showing the chalk"
If I ask you what is the thickness of this piece of chalk. How do you measure?

How do you measure "Showing the wire". How do you measure the thickness of this wire?

Scale, tape

by using measuring jar.

Cannot measure with Scale

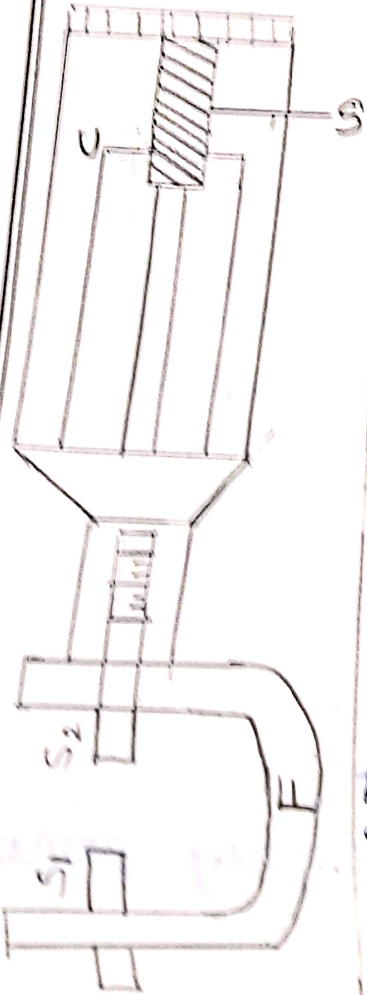
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Scale, tape

Piece of chalk

Wire

Content Analysis



Teachers activity

Can you use the scale and tell me the thickness

Showing the screw gauge what is the shape of the end of this screw gauge

This instrument consists of U-shaped metallic frame. What is the shape of this part?

Pupils activity

U shape

Cylinder.

Blackboard writing
Aids used

Screw gauge.

Component behaviour

Content Analysis

Teacher's activity

Pupils activity

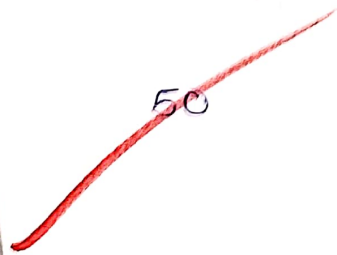
Black board writing
Aids used

Component
outlined

This instrument consist of U-shaped metallic frame. What is the shape of this part?
What do you find here?
How many divisions do you find?
This is called as head scale. This has 50 or in some divisions
What do you find outer layer parallel to head scale

cylinder

Scale



Scale

30

Content Analysis	Teacher's activity	Pupils activity	Black board writing & Aids used	Component behaviour
	<p>How many divisions do you find</p> <p>This is called as pitch scale.</p> <p>What did I do now.</p> <p>How many times</p> <p>Least count of this screw gauge is the number of scale rotating divided by number of head scale divisions</p>	<p>10</p> <p>rotated once.</p> <p>once.</p>	<p>No. of rotations of scale</p> <p>No. of head scale divisions</p>	

Content Analysis	Teacher's activity	Pupils activity	Black board writing & aids used.	Component behaviour
	Tell me the least count:			
	How many times did I rotate	Once.		
	How many divisions in the head scale	100		
	Tell me the least count	$\frac{1\text{mm}}{100}$	$\frac{1}{100}\text{mm}$	
	What is the value of $\frac{1}{100}\text{mm}$	0.01 mm	0.01mm	
	Can you say it in cm?	0.001cm		
	What is this value	least count of the screw gauge	L.C = 0.001cm	