LSF KNOWLEDGEBASE

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PHYSICS		
PRACTICAL	Date:Class	
PAPER 3		

LSF Knowledgebase SERIES

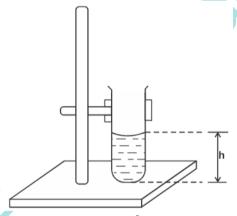
You are provided with the following:

- a boiling tube
- a measuring cylinder
- a half metre rule
- water in a container
- a stand complete with boss and clamp
- vernier callipers (may be shared)

Proceed as follows:

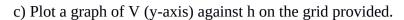
a) Using the vernier callipers measure t	the internal diameter,	d, of the b	oiling tube.	
d =	cm.	AK	,	(1 mark)

b) i) Clamp the boiling tube vertically as shown in the figure below.



- ii) Using the measuring cylinder pour 15cm ³ of water into the boiling tube. Measure and record in table below the height h, of water in the boiling tube.
- iii) Repeat the procedure in b (ii) for other volumes of water, V, shown in the table. (5 marks)

Volume , V, of water. (cm³)	Height, h, of water. (cm)
15	
20	
25	
30	
35	
40	



(5 marks)



d) i) From the graph determine the slope S and its units.

(3 marks)

ii) Determine the value of constant k given that $4S = kd^2$.

(2 marks)