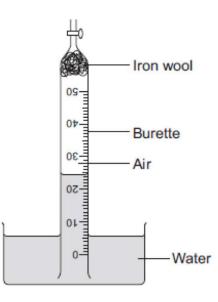


A student set up the apparatus shown in Figure 1.

Figure 1

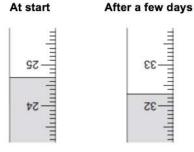


The student left the apparatus for a few days. The water level in the burette slowly went up and then stopped rising.

Figure 2 shows the water level in the burette at the start of the experiment and after a few days.

Figure 2

After a few days



	Ζ		
0 1 . 3	Complete the table below to show the reading on the burette after a few days. [1 mark		
	Burette reading at start	24.7 cm ³	
	Burette reading after a few days	32.3	
0 1 . 4		e volume of oxygen used up in the reaction. [1 mark]	
	32.3 - 24.7 ecf from (01.3)		
	Volume =		
	The percentage of air that is oxygen can be calculated using the equation:		
	percentage of air that is oxygen = <u>volume of air used up</u> × 100 volume of air at the start		
0 1 . 5	The student cannot use his results to calculate the correct percentage of air that is oxygen.		
	Explain why.		
	do not know start volume of air [1]		
	because the burette not grac	luated to the end [1]	
	allow iron wool takes up some of the space		
	If no other marks awarded acc or still some oxygen left / not	ept all iron may have rusted [1] all used up [1]	

End

(Total 6 marks)