

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



2		
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 <sup>3</sup>
	Burette reading after a few days	cm³
0 1 . 4	Calculate the volume of oxygen used up in the reaction. [1 mark]	
	Volume =	Cm <sup>3</sup>
	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 <b>cannot</b> use his results to calculate the correct percentage of air that is oxygen.	
	Explain why.	[2 marks]
		(Total 6 marks)

End