



# BIOLOGY

Science Department



Activities to complete:

1. Sketch and fully label an animal and plant cell and state 3 structural differences between them [8]. Highlight any features that you have added beyond those covered at GCSE and for all features summarise the key role in the cell.
2. Draw a flow chart showing the path of a red blood cell from the right atrium all around the body until it enters the right atrium again [7].
3. Research the main differences between the light and electron microscope and explain how they affect the function of the microscope [6]
4. Write the word and symbol equation for respiration, state where it occurs and explain why respiration is essential for all living things [4]
5. Draw a graph of the following data [5]

Time (s)	Volume of gas given off (cm <sup>3</sup> )
0	0
10	15
20	23
30	34
40	42
50	45
60	46

6. Describe the data you have plotted [3]
7. Summarise the scientific article in no more than 75 wrds. The web address below can be used to find the article, including a short video.

<http://www.newscientist.com/article/dn24114-mini-human-brains-grown-in-lab-for-first-time.html>

All transition work needs to be completed by the end of the 2<sup>nd</sup> week of lessons.

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if you have any queries.

Thank you and see you in September,

Miss H Ball

Acting Head of Science