

### By the end of Autumn 1 you will know:

#### Cells

1. What are cells?
2. What is a subcellular organelle?
3. What are the parts of an animal cell?
4. What are the functions of the different parts of the animal cell?
5. What are the parts of a plant cell?
6. What are the functions of the different parts of the animal cell?
7. What are the similarities between animal and plant cell?
8. What are the differences between animal and plant cell?
9. What does prokaryotic mean?
10. What does eukaryotic mean?
11. What does unicellular organism mean?
12. What are the parts inside of the yeast and bacteria cells?
13. What is plasmid?
14. What is the function of flagellum?
15. What is the function of food granules?
16. What are the main parts of a microscope?
17. How do we use microscope to view animal and plant cells?
18. What is the equation to calculate total magnification?
19. What are two different types of microscope?
20. What are the different uses of each type of microscope?
21. Put the following in order biggest to smallest:  $\mu\text{m}$ , m, cm, km, nm, mm
22. How do you convert mm into  $\mu\text{m}$ ?
23. How do you convert  $\mu\text{m}$  into mm?
24. What is a specialised cell?
25. What are some names of specialised cells?
26. What is the function of some specialised cells (red blood cell, root hair cell, sperm cell, palisade cell)?
27. What are the adaptations of some specialised cells (red blood cell, root hair cell, sperm cell, palisade cell)?
28. What are tissues?
29. What are organs?
30. What are organ systems?
31. What are different examples of cells, tissues, organs and organ system?

#### Skeletal and muscular

1. What are the four main functions of the human skeleton?
2. Name the main parts of the human skeleton?
3. What is the function of joints?
4. What is the name and location of 2 basic joints?
5. What is the difference between ligament and tendon?
6. What do muscles do?
7. What are antagonistic muscles?
8. What are examples of antagonistic muscles?
9. What are the ways the skeleton and muscles interact?
10. What are biomechanics?
11. What is the equation to calculate moment?
12. What are the units for force?

### By the end of Autumn 2 you will know:

#### Nutrition and digestion

1. What are the different components of a healthy diet?
2. Give an example of a type of food from each food group.
3. What are the different food groups for?
4. What is a calorie?
5. What unit are calories measured in?
6. What is the RDA of calories for males and females?
7. What are the consequences of an unbalanced diet?
8. What are some examples of eating disorders?
9. What is a drug?
10. What are medicinal drugs? Give 2 examples.
11. What are recreational drugs? Give 2 examples.
12. What is addiction?
13. What happens to somebody during withdrawal?
14. What is a depressant?
15. What are the tests for different food groups?
16. What are objective results?
17. What are subjective results?
18. What are the parts of the digestive system?
19. What order do the organs of the digestive system go in?

20. What is the function of each organ in the digestive system?
21. What is the function of bacteria in the digestive system?
22. What is an enzyme?
23. What is the function of an enzyme?
24. What is the lock and key model?
25. What does optimum mean?