

Tobermory High School

Standard Grade Biology

Investigating Cells

Aerobic respiration

1. Name 4 kinds energy (2)
2. State 3 reasons why living cells need energy. (3)
3. Describe aerobic respiration as an equation. (2)
4. Draw a respirometer and explain how it works. (3)
5. Define the following, or explain what they are used for. (6)
 - (a) anaerobic
 - (b) metabolism
 - (c) aerobic
 - (d) bicarbonate indicator
 - (e) potassium hydroxide
 - (f) lime water.
6. Describe an experiment to compare how much energy there is in fats, proteins and carbohydrates. (5)
7. Three food sample were analysed to fill the proportions of fat, carbohydrate and protein. The following results were obtained.

Food	% carbohydrate	% fat	% protein
Peanuts	5	56	19
Bacon	10	30	10
Pastry	12	28	60

If the percentages don't total 100 then water is also present.

Draw pie charts for the 3 foods.

(9)

Total = 30