

IGCSE Biology (9-1) Specification 2(c)

(c) Biological molecules

Students should:

- 2.7** identify the chemical elements present in carbohydrates, proteins and lipids (fats and oils)
- 2.8** describe the structure of carbohydrates, proteins and lipids as large molecules made up from smaller basic units: starch and glycogen from simple sugars, protein from amino acids, and lipid from fatty acids and glycerol
- 2.9 practical:** investigate food samples for the presence of glucose, starch, protein and fat
- 2.10** understand the role of enzymes as biological catalysts in metabolic reactions
- 2.11** understand how temperature changes can affect enzyme function, including changes to the shape of active site
- 2.12 practical:** investigate how enzyme activity can be affected by changes in temperature
- 2.13** understand how enzyme function can be affected by changes in pH altering the active site
- 2.14B practical: investigate how enzyme activity can be affected by changes in pH**

Dr. James Peros (PhD, BS, BS, BA, AS, CEEd)