

## **Standard Grade Biology**

### **The Body in Action**

#### **2. The Need for Energy**

#### **Checklist    Grade**

At the end of this topic you should be able to:

- |   |                          |         |
|---|--------------------------|---------|
| (a) state that food provides energy for movement.   | <input type="checkbox"/> | General |
| (b) state that different foods have different energy values.  | <input type="checkbox"/> | General |
| (c) state the effect of the imbalance between energy input and output.  | <input type="checkbox"/> | General |
| (d) state that oxygen is used to release energy from food.  | <input type="checkbox"/> | General |
| (e) state that oxygen is absorbed and carbon dioxide is released in breathing.                                  | <input type="checkbox"/> | General |
| (f) describe the gross internal structure of the lungs.   | <input type="checkbox"/> | General |
| (g) state that bronchioles end in air sacs.   | <input type="checkbox"/> | General |
| (h) describe gas exchange between air sacs and the surrounding blood vessels.                                   | <input type="checkbox"/> | General |
| (i) describe the mechanism of breathing in humans.  | <input type="checkbox"/> | Credit  |
| (j) explain the function of cilia and mucus in the trachea and bronchi.   | <input type="checkbox"/> | Credit  |
| (k) describe the features which make lungs efficient gas exchange structures.                                   | <input type="checkbox"/> | Credit  |
| (l) identify the four chambers of the heart.  | <input type="checkbox"/> | General |
| (m) describe the path of blood through the heart and associated vessels.  | <input type="checkbox"/> | General |
| (n) describe the position and function of heart valves.   | <input type="checkbox"/> | General |
| (o) explain the difference in thickness of the ventricle walls.   | <input type="checkbox"/> | General |
| (p) state that the heart obtains its blood supply from coronary arteries.                                       | <input type="checkbox"/> | General |
| (q) state that blood leaves the heart in arteries, flows through capillaries and returns to the heart in veins. | <input type="checkbox"/> | General |
| (r) state that a pulse indicates that blood is flowing through an artery.                                       | <input type="checkbox"/> | General |
| (s) describe the function of red blood cells and plasma in transport of gases and food.                         | <input type="checkbox"/> | General |
| (t) describe gas exchange between body cells and surrounding capillaries.                                       | <input type="checkbox"/> | General |
| (u) explain the function of haemoglobin in the transport of oxygen.   | <input type="checkbox"/> | Credit  |
| (v) describe the features of a capillary network which allow efficient gas exchange.                            | <input type="checkbox"/> | Credit  |

Homework

***End of Topic Test***
