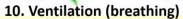
## **Biology B1.2: Body systems**

| Section 1: levels of organisation |   |  |
|-----------------------------------|---|--|
| Cell Structure Function           |   |  |
| 1 Cell                            | Building block of life                      |  |
| 2 Tissue                          | Group of cells of the same type             |  |
| 3 Organ                           | Group of different tissues working together |  |
| 4 Organ System                    | Group of organs working together            |  |
|                                   |   |  |



| Section 2: Gas exchange and breathing |   |  |  |
|---------------------------------------|---|--|--|
| Specialised<br>Cell                   | How structure relates to function   |  |  |
| 8 Inhale                              | Breathing in, filling the lungs with air –<br>taking in oxygen  |  |  |
| 9 Exhale                              | Breathing out – removing carbon dioxide   |  |  |
| 10 Ventilation                        | Breathing in and out  |  |  |
| 11 Respiration                        | A chemical reaction where sugar and<br><b>oxygen</b> are converted into energy , water<br>and <b>carbon dioxide</b> |  |  |
| 12 Diaphragm                          | A sheet of muscle used in breathing: contraction draws air in   |  |  |

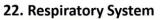




| Section 3: Respiratory system |  |  |
|-------------------------------|--|--|
| 10 Trachea                    | Large tube that air moves<br>down into the lungs<br>(Windpipe)           |  |
| 11 Bronchus                   | Smaller tubes that branch into the Lungs                                 |  |
| 12 Alveolus                   | Structure found in the <b>lungs</b><br>where gas exchange takes<br>place |  |
| 20 Lungs                      | The <b>organ</b> where gas exchange takes place                          |  |
| 21 Lung volume                | The amount of air <b>lungs</b> can hold.                                 |  |
| 22 Respiratory<br>system      | <b>Organs</b> involved in gas exchange                                   |  |

| <b>system</b> exchar   | nge ·  |  |
|------------------------|--|--|
| Section 4: Movement    |  |  |
| 10 Bones               | <b>Tissue</b> that forms a hard structure used to protect organs and for movement                                      |  |
| 11 Skeleton            | All the bones in the skeleton  |  |
| 12 Cartilage           | The strong smooth tissue that covers the end of <b>bones</b> to prevent them rubbing together                          |  |
| 20 Ligaments           | Tissue that joins two <b>bones</b> together  |  |
| 21 Tendons             | A <b>tissue</b> that joins a <b>muscle</b> to a <b>bone</b>  |  |
| 22 Antagonistic Muscle | A pair of muscles that work together to control movement at a joint – as one muscle <b>contracts</b> the other relaxes |  |





collar bone

kneecap

-tibia

radius

11. Human Skeleton

vertebral column -

(backbone)

humerus

jaw bone -

femur-

fibuta-

