Respiratory Summary Project

Areas of Focus

1. Respiratory Structures (Mouth…. Alveoli, Muscles, Pleural Membrane)
2. Mechanics of Breathing (Inhalation, Exhalation, how are these signaled)
3. Gas Exchange (Air Conditioning, External Respiration, Internal Respiration, Cellular Respiration)

Mission: Create a life size diagram of the body that summarizes the respiratory system! Here is more detail! I will provide the paper and the colours you do the rest!!

Structures:

– nasal cavity

– pharynx

– larynx

– trachea

– bronchi

– bronchioles

– alveoli

– diaphragm and ribs

– pleural membranes

– thoracic cavity /10

 Cilia and mucus in the respiratory tract /2

 Structure and function of alveoli /2

 Breathing process:

– respiratory centre in the medulla oblongata

– lungs

– pleural membranes

– diaphragm

– intercostal (rib) muscles

– stretch receptors /6

 Inhalation and exhalation /2

 Role of Medulla Oblongata /1

 Role of Carotid and Aortic Bodies /1

 Internal and external respiration, including

– location of exchange

– conditions that favour exchange (e.g., pH, temperature) /4

 Oxyhemoglobin, carbaminohemoglobin, reduced hemoglobin, bicarbonate ions, and carbonic anhydrase /5

Chemical equations for internal and external respiration /2

Content /35

Creativity, Presentation, Layout /10

**TOTAL: /45**