***Year 8 Assessment Task 1 2023***

***Modelling How the Body Works***



Select **one** of the following processes in the body and create a conceptual model to demonstrate:

* Circulatory System: How substances move in and out of cells
* Respiratory System: How the diaphragm inflates the lungs
* Digestive System: How stomach acid digests food
* Muscular/Skeletal System: How tendons make the hands grip
* Digestive System: How the oesophagus uses peristalsis to transport food
* Digestive system: How bile breaks down oils
* Or another that has been approved by your class teacher.

You will need to **build this model at home**, out of objects you may find around the house.

**Part A - Plan and Construct your model**

* **Using this booklet**, research, plan and sketch 2 designs of your model and then create a detailed final version for your construction. Include the height, length and width of your model. **Your booklet will be handed in to your teacher by the due date.**
* You will either photograph or video the model working. **This file will need to be uploaded to CANVAS by the due date**

**Part B – Communicating your model. (Poster, powerpoint, prezi, etc)**

* You will use a minimum of 3 images of your model of the key components of the process and annotate the images to **explain** what is occurring and why (Provide details of the key components being modelled.)
* You will also need to **Analyse** How well has the model demonstrated the biological process? (What are the strengths and weaknesses of the model)

***Part A - Model Plan – (SC4 - 5WS)***

**Design**

**Equipment List**



**Notes on sourcing equipment**

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**1st Design Idea**

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Sketch one:

**2nd Design Idea**

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Sketch two:

**Final Design Idea**

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Final Design: