M.Y.O.S.

(Make Your Own Skeleton!)

In this assignment, you will get to really show off your

creative side! The task is to build a model of an anatomically correct human skeleton using ordinary materials from around

the house. Before we get to the nitty-gritty of exactly what is required, let’s do a little brainstorming about what materials could be used for various bone types:

**Long Bones**

* Arms & legs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Hands & feet \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Short Bones**

* Wrists & ankles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Flat Bones**

* Cranium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Ribs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Sternum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Irregular Bones**

* Vertebrae \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Facial & Mandible \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Scapula \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Pelvis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Good Ideas! Now here are the specifics of what will be required for this project:

* At least 3 feet tall
* The following structures correctly represented and labeled:

**BONES BONES OTHER**

|  |  |  |
| --- | --- | --- |
| Parietal | Humerus | **BONE MARKINGS** |
| Temporal | Radius | Zygomatic process |
| Occipital | Ulna | External auditory meatus |
| Frontal | Carpals | Mastoid process |
| Zygomatic bone | Metacarpals | Foramen magnum |
| Maxilla | Phalanges (hands & feet) | Manubrium |
| Mandible | Femur | Body (of sternum) |
| Cervical vertebrae (7) | Patella | Xyphoid process |
| Thoracic vertebrae (12) | Tibia | Coronal suture |
| Lumbar vertebrae (5) | Fibula | Lambdoid suture |
| Sacrum | Tarsals | Sagittal suture |
| Coccyx | Metatarsals |  |
| Clavicle | Ilium | **FRACTURES (≥3 of these 6)** |
| Scapula | Ischium | Transverse |
| Sternum | Pubis | Oblique |
| Ribs |  | Displaced |
|  |  | Compound |
|  |  | Spiral |
|  |  | Greenstick |

Grading Rubric

|  |  |  |  |
| --- | --- | --- | --- |
| **Creative Use of Materials** | 50  Does not meet height requirement. Appears “thrown together”. | 75  Meets height requirement, but shabbily assembled. | 100  Meets height requirement with quality workmanship. |
| **Bones** | 20  Many bones missing. Bones are mislabeled and/or unlabeled. | 30  Includes nearly all bones with few mislabelings. | 50  All bones present and labeled correctly. |
| **Markings**  **&**  **Fractures** | 20  Many markings and/or fractures missing and/or mislabeled. | 30  Includes nearly all markings/fractures with few mislabelings. | 50  All bones present and labeled correctly. |

TOTAL SCORE FOR THIS PROJECT: \_\_\_\_\_\_\_ / 200