

LAB 4: INTRODUCTION TO SKELETAL SYSTEM (AXIAL SKELETON)

In this lab you will be introduced to the **structure and classification of bones** and you will learn the axial skeleton in detail

Prelab

- Label the diagram of the skeleton (p 2) and the long bone (p 3)
- Label the skull diagrams on p 8 and 9
- Label the vertebra on p 11
- Complete pages 1,3, 5, 6, 7,10, 12, 13, 14
- Label the **flash cards** at the end of this lab (**BIG HELPFULHINT:** the labelled structures are the same ones mentioned in the text of the lab manual)

Objectives

This lab and the next lab involve a detailed look at the bones of the body. For each bone you are responsible for knowing the following:

1. the **names** of the bones of the **axial skeleton** and the bone **landmarks** (bumps and depressions), as indicated for each bone
2. the **location** of the bones in the body, and the relevance of the landmarks
3. the **structure** of a long bone
4. difference between **compact** bone and **spongy** (cancellous) **bone tissue**

Learning the skeletal system in detail will require continual review. Refer to the flash cards, locate the bones and landmarks on your own body, handle the bones in the lab.

AXIAL SKELETON

The skeletal system consists of the **axial skeleton** and the **appendicular skeleton**. This lab focuses on the axial skeleton.

Name the 3 main **subdivisions of the axial skeleton**:

- i) _____
- ii) _____
- iii) _____

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