

## 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) \_\_\_\_\_

# Biology 143 Lab Manual

**Clemens Wendtner**



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