

Exercise 37A Anatomy of the Respiratory System Eighth Edition

Objectives: 1-3, 5-6

Mechanics of Respiration

- full reading comprehension of the section
- know figure 37A.1 Rib Cage and Diaphragm Positions
- learn the mechanics of inspiration and expiration

Respiratory Volumes and Capacities –“Spirometry”

- know what a spirometer is (what type are we using?)
- learn how to read figure 37A.2 (Spirographic Record) and how to derive the volumes and capacities from such a trace
- full comprehension of Activity 3: Measuring Respiratory Volumes
Using a Nonrecording Spirometer

Use of the Pneumograph...

- omit this section

Respiratory Sounds

- full reading comprehension of this section
- omit *Activity: Auscultating Respiratory Sounds*

Role of the Respiratory System in Acid-Base Balance of Blood

- full reading comprehension of this section
- be able to write the general reaction of the Carbonic Acid-Bicarbonate buffering system
- understand hypo/hyperventilation, respiratory acidosis and alkalosis
- omit the remaining Activities in this unit

Laboratory Activities

- Perform Activity 2: Measuring Respiratory Volumes, Steps 2, 6 and 7 only

Respiratory Vocabulary