Figure 23.1 is a sagittal view of the upper respiratory structures. First, correctly identify all structures with leader lines on the figure. Then, select different colors for the structures listed below, and color the coding circles and the corresponding structures on the figure.

- Nasal cavity
- Larynx
- Tongue
- Pharynx
- Paranasal sinuses
- Hard palate
- Trachea

Label and color #1, #2, and #3. You may choose your colors for #1 and #2. Follow coloring instructions for #3!!

For #4, #5, and #6 match the key choice with the description.

Figure 23.4 illustrates the gross anatomy of lower respiratory structures. Intact structures are shown on the left, isolated respiratory passages are shown on the right. Select a different color for each of the respiratory system structures listed below and color the coding circles and the corresponding structures on the figure. Then complete the figure by labeling the areas and structures with leader lines. Be sure to include the pleural space, mediastinum, apex of right lung, diaphragm, clavicle, and the base of the right lung.

- Trachea
- Primary bronchi
- Visceral pleura
- Larynx
- Secondary bronchi
- Parietal pleura
- Intact lung
- Tertiary bronchi
- Primary bronchi
6. Sum of all lung volumes

5. Amount of air that can still be expired (residual volume) after a normal expiration

4. Can volume that allows gas exchange to go on continuously

3. Total amount of exchangeable air

2. In expiration, pressure that, when decreased to 0, allows gas exchange to stop

1. Expiration reserve volume (ERV)
   
   C. Inspiratory Reserve Volume (IRV)
   
   B. Total Lung Capacity (TLC)
   
   A. Vital Capacity (VC)

A. Dead space volume

B. Diffusion law

C. Henry's law

D. Boyle's law

**KEY CHOICES**

1. The cell base is toward the larynx.

2. Close the nasopharynx during swallowing.

3. Close the glottis during the glottis maneuver.

4. Freely move in the nasal cavity that increases the surface area.

5. Lumen of larynx.

6. Windpipe.


8. Anterior layer covering the throat wall.

9. Autonomic nervous system nerve serving the larynx.

10. Larynx.

11. Requires a few days.


**KEY CHOICES**

1. Conchae

2. Bronchioles

3. Primary bronchi

4. Trachea

5. Tracheal rings

6. Nares

**KEY CHOICES**

1. Respiratory passageways

2. Small respiratory passageways

3. Separate the nose and nasal cavities

4. Posterolateral position in the interior

5. Séche the oral and nasal cavities

6. Dead space volume

7. Partial volume.

8. Residual volume

9. Inspiratory capacity

10. Expiratory volume

11. Residual volume (RC)

12. Inspiratory reserve volume (IRV)

13. Expiratory reserve volume (ERV)

14. Total lung capacity (TLC)

15. Vital capacity (VC)

16. Diffusion law

17. Henry's law

18. Boyle's law

**KEY CHOICES**