

Respiratory Lab: Lesson Plan

Resources

Required resources for students:

- Visible Body's Human Anatomy Atlas version 2018.5 or later
- Worksheet (see below)

Additional resources for students and teachers:

- This lesson assumes that students have a basic understanding of the respiratory system. They can read the articles and watch videos on this page for an introduction to the respiratory system: <https://www.visiblebody.com/learn/respiratory>

Objectives

At the end of this lesson, students should be able to:

1. Describe the respiratory system and its structures.
2. Describe the processes of inhalation and exhalation.

In their answers, students should define the following terms: Lungs, trachea, bronchi, alveoli, nasal cavity, larynx, oropharynx, nasopharynx, laryngopharynx, and primary bronchus.

Introduction

10 minutes: Use Human Anatomy Atlas, as well as the set of articles and videos referenced in the additional resources section above, to give your students a brief introduction to the structures of the upper and lower respiratory system. Focus on the main function of the upper respiratory system, which is to warm and moisten the air while simultaneously preventing larger dust particles from entering the respiratory tract. Then, focus on the lower respiratory system structures and their role in gas exchange.

Student Activities

30 minutes: Have your students complete the four activity worksheets in this lesson. Check their work using the answer key.