

The Apple Lab

⇒ *Anatomical Directions and Body Planes*

Name

Lab Partner

Period

Date

BACKGROUND:

Being able to accurately describe body parts and positions is imperative for the anatomist or medical professional. Such a task requires the use of directional terms that reveal the relative position of body parts. In this lab, you will be using your knowledge of anatomical directions and body planes to determine the location of body parts on the apple. Be sure to read your procedures carefully!

OBJECTIVE: Use proper anatomical terminology to determine body directions, surfaces, and body planes.

MATERIALS: apple, knife, marker, toothpicks

SAFETY: Exercise caution when handling knife.

PROCEDURES:

1. Stand your apple on the table with the stem up. Consider the stem the superior end of the apple.
2. With your marker, draw a line to indicate the frontal plane of the apple. Label the line with an "F" near the stem.
3. On the anterior surface of the apple, draw a circular eye along the midsagittal plane that is approximately 3 cm inferior to the stem.
4. The eye is superior and medial to an ear on the left anterior surface of the apple. Draw the ear.
5. Contralateral to the ear along the right anterior surface is another ear. Draw this ear equidistant from the midsagittal plane and along the same transverse plane as the other ear.
6. Approximately 1 cm inferior to the eye on the posterior surface of the apple draw a small mouth along the midsagittal plane.
7. Lateral to the mouth and at its superior aspect draw two noses, each of which is equidistant from and on opposite sides of the midsagittal plane.
8. Place two toothpicks along the frontal plane slightly inferior to the mouth. The insertion points of the toothpicks into the apple should be along the same transverse plane, and on opposite sides of the midsagittal plane.
9. At the distal end of each toothpick make two dots with your marker.
10. Draw a picture of your apple in the space below.



