

## **Food Plane and Directional Terminology Dissection**

**Purpose:** In order to understand the various body planes, students will use various foods to dissect along specific plane paths.

**Materials :** hard boiled eggs, apples, celery, kitchen knife or scalpel, cutting board or surface

### **Procedure A: EGG**

1. Take two boiled eggs, and peel away the shell.
2. With the first egg, make a parasagittal incision along the long axis and a second midsagittal incision.
3. With the second egg, make a dorsal transverse incision at the apical edge (apex of egg) and a mid transverse incision.

When did you only see cooked egg white? When did you see cooked egg white and yolk? Why?

### **Procedure B: APPLE**

1. Take two apples (any size, any color) and wash them thoroughly.
2. With the first apple make a frontal slice through it.
3. With the second apple, make a midsagittal cut through it.

How do these slices compare? When would a frontal “cut” show something different than a sagittal one?

4. Take one of your 4 apple sections and make a transverse slice through it.
5. Take another of your apple sections and make an oblique slice through it.
6. Take another of your apple sections and make coronal slice through it.
7. Take both of your apple sections cut by the transverse cut and slice them midsagittally.
8. Take those 4 small apple pieces and divide them amongst your lab team. Eat them!

**Procedure C: CELERY Surgery – Assume you are a SURGEON....yes.... a celery surgeon!**

**Place the celery in a supine position.**



**A: Prepare patient for surgery**

1. Using a marker, draw a circle around the THROACIC region of the VENTRAL surface of the celery.
2. Draw a bold dot at the location of the NAVAL (umbilicus).
3. Draw a triangle at the celery's PELVIC region.
4. On the DORSAL surface draw a dotted line representing the celery's VERTEBRAL region. Draw a star at the CRAINAL end of the line, and a money signal at the CAUDAL end.
5. Draw a ring around the celery's CERVICAL region.
6. Draw a square around the ABDOMINAL region.

**B: Perform surgical procedures**

1. At the umbilicus on the ventral surface of the celery, make a superficial midsagittal incision and proceed inferiorly (all the way to the bottom of the stalk)
2. At the Superior end (near the head of the celery), on the dorsal surface, make a Deep transverse incision. Do not transect (completely cut through) the celery
3. Enter from the LATERAL surface at the level of the umbilicus and make a complete coronal (Frontal) incision and proceed inferiorly (all the way to the bottom)
4. Make a COMPLETE MEDIAL NOTCH \* on the inferior end all the way to the bottom of the stalk.

*\*a 3-D triangle similar to the wedge made in the side of a tree as you are chopping it down*

Complete a sketch of your patient after the surgical procedures below.