

UNIT 11 - URINARY SYSTEM

ACTIVITY – Kidney Sculpture

Objective:

The student will create a kidney from modeling clay and be able to describe the main structures.

Materials:

- Modeling clay
- Toothpicks
- Paper plates
- Paper
- Pen or pencil
- Plastic knife.

Strategy:

Each student is given a paper plate and some amount of modeling clay. The student will mold the clay into the shape of a kidney. Using the plastic knife cut the kidney half on creating a anterior and posterior portion. Lift the anterior kidney structure up and set it next to the other half of the kidney on the paper plate. One kidney should show the exterior side the other the interior side.

Using a tooth pick, sculpt the internal structures associated with the kidney. Then label all the parts of the kidney using both of your kidney parts. Make individual signs from paper and toothpicks for labels. The kidney structures are listed as follows:

- Cortex
- Medulla
- Renal pelvis
- Calyx
- Ureter
- Renal fascia
- Adipose capsule
- Renal capsule
- Renal pelvis
- Renal sinus (space)
- Renal column
- Renal pyramids