

# UNIT 11 - URINARY SYSTEM

## ACTIVITY - Filtration in Bowman's Capsule

### **Objective:**

Students will understand the process of filtration in the kidney.

### **Materials:**

- Small funnel
- Cornstarch
- Beaker or jar
- Eyedropper
- Filter paper (to fit inside funnel)
- Iodine
- Water
- Plastic spoon
- Two large beakers or small jars
- Yellow food coloring

(Note: Iodine is poisonous. Use caution and do not allow it to get into your mouth.)

### **Strategy:**

**This is a demonstration of the filtration process.**

Fold the filter paper to fit the funnel. Wet the paper with some water and seat into the funnel. Set it inside one of the beakers or jars.

Fill the second beaker or jar about half full of water and then add a spoonful of cornstarch.

Using the eyedropper add three drops of iodine to the starch mixture. Next, drop ten drops of yellow food coloring into the cornstarch / iodine mixture.

Using the spoon stir the mixture.

Pour the mixture into the funnel and watch the filtration process.