

## Urinary System Project

1. Create a model of a nephron: hand draw a picture with 3D parts if you would like using the various art supplies
2. Label your model as a **Nephron**
3. Include all **anatomical structures** of the nephron
  - a. Glomerulus, bowman’s capsule, proximal tubule, loop of Henle, distal tubule, and collecting duct
4. Label the **4 processes** and where each occurs. Provide a short **description** of each
5. Draw in **direction of blood flow**
6. Label the specific **substances** moving by **passive and active transport**
7. Include the **nitrogen wastes** that are removed with the urine and **3 characteristics of urine**
8. Picture on the side: include the **4 main organs** of the system (picture or words)
9. Information on the side: list function of the **2 hormones** that regulate the kidneys
10. Information on the side: explain **2 disorders** associate with the urinary system

<b>Project Component</b>	<b>Point Possible</b>	<b>Points Earned</b>
Create a model	3	
Labeled model as a nephron	5	
All anatomical structures of the nephron included	24	
4 processes included and described	20	
Direction of blood flow indicated	3	
Substances moving by cell transport included: reabsorption, secretion, and what stays in blood in filtration	12	
Nitrogen wastes in urine included along with 3 other characteristics of urine	9	
4 main organs listed or drawn	8	
2 hormones described	8	
2 disorders described	8	
<b>Total</b>	<b>100</b>	