Name:	Date:	Hour:
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KIDNEY FUNCTION ANIMATION

Directions: Watch the entire animation one time. Read each slide carefully and watch the accompanying animations. Return to the beginning of the animation and answer the following questions.

1. Where are the kidneys located? What are the internal structures of the kidney?

- **2.** Name the structure that carries out the "work" of the kidney. Approximately how many do we have?
- **3.** Describe what is meant by the glomerulus. Where does the blood that drains the glomerulus move to?

4. View slides 4 through 7, diagram a nephron and label the following anatomical structures of a nephron and the corresponding blood vessels outside the nephron: glomerulus, proximal tubule, loop of henle (ascending limb and descending limb), distal tubule, collecting duct, cortex, medulla, peritubular capillaries.

Name:		_Date:	Hour:
5.	Name the three processes by which the nephron control	s the composit	ion of the blood.
6.	What is responsible in the first step of urine formation? water/small molecules? Where are the filtrates left at af		
7.	What is the proximal convoluted tubule responsible for	?	
8.	What takes up water in the proximal convoluted tubules returned to?	s? Where are th	ne solutes/water
9.	How does the loop of Henle create concentrated urine?		
10.	What region actively transports Cl ⁻ and passively transpin this region?	oorts Na ⁺ ? Doe	s water also diffuse
11.	Where is the fluid in the renal system MOST concentrate LESS concentrated than the blood plasma? Where have		

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12. As the fluid descends down the thick/thin ascending limb, what causes the urine to become more concentrated?