Zoology Study Guide

Unit 3: Homeostasis

Homeostasis Intro

Know how homeostasis applies to:

|  |  |  |
| --- | --- | --- |
| **System** | **Main Organ** | **Homeostatic Mechanisms** |
| •Body Temperature  (Specifically evaporative cooling) |  |  |
| •Blood pressure |  |  |
| •Blood pH |  |  |
| Osmoregulation-Water balance |  |  |
| •Blood glucose |  |  |

Thermoregulation:

1. The compare and Contrast:

|  |  |
| --- | --- |
| **Homeothermy** | **Pokilothermy** |
|  |  |

2. What is special about Tuna thermoregulation and why is it needed?

3. Functions of our skin

Feedback Loop

1. Know the parts of a feedback loop

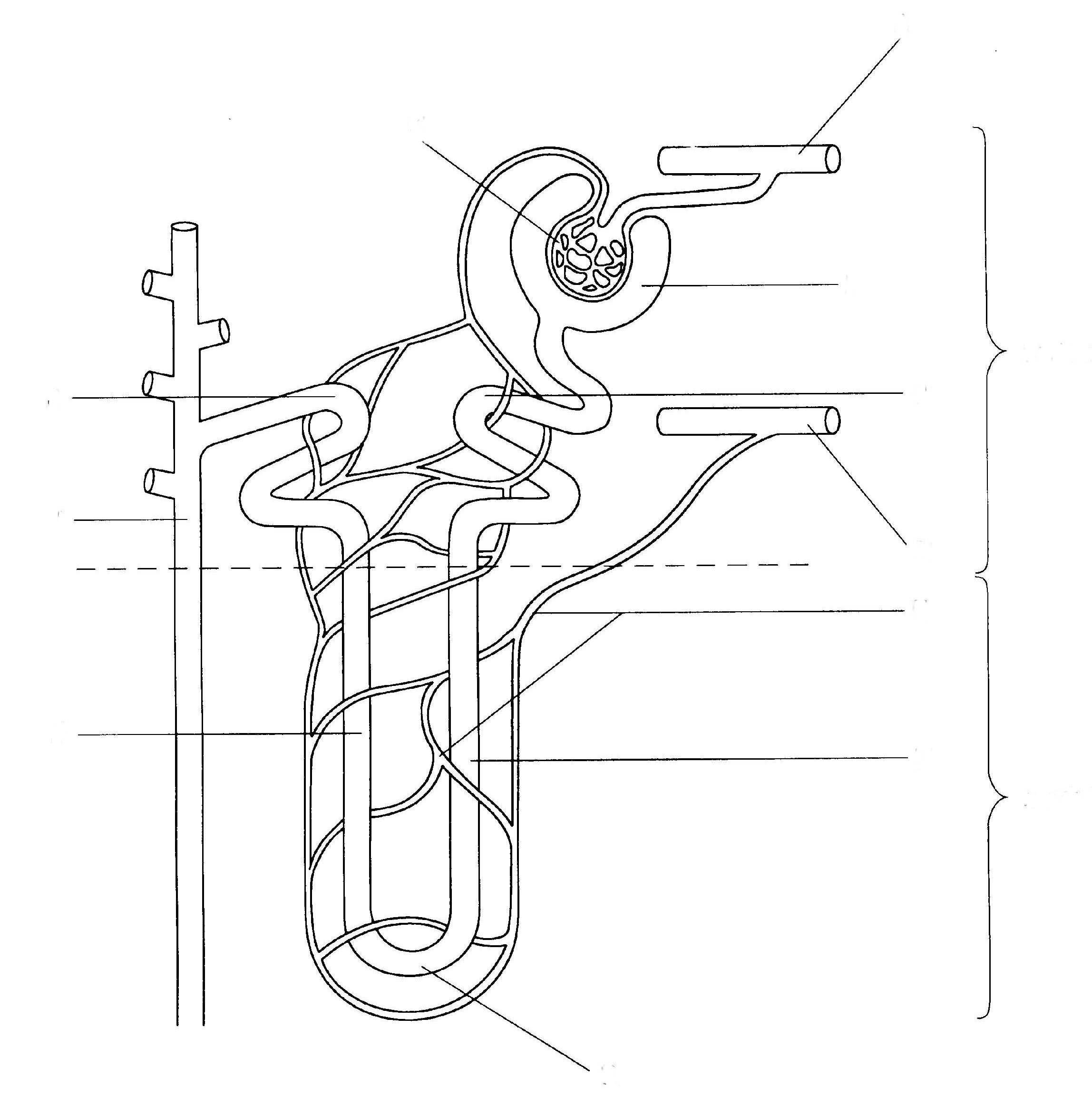
|  |
| --- |
| Screen shot 2012-12-09 at 9.30.58 PM.png |

1. Be able to do examples like those in the practice worksheet:

*Put the problem that was the most challenging to you here:*

Kidney Evolution

1. Review the components of the paper
2. Explain the structure and function of the nephron:



|  |  |
| --- | --- |
| Renal Artery |  |
| Glomerulous |  |
| Bowman’s capsule |  |
| Descending loop of henle |  |
| Ascending loop of henle |  |
| Loop of henle (in general) |  |
| Collecting Duct |  |