AP Biology 021 – Homeostatic Evolution
Video Review Sheet
www.bozemanscience.com/021-homeostatic-evolution

1. Introduction:
    a. Describe the Tiktaalik fossil and its importance.

    b. Name and describe the two items do homeostatic mechanisms show:

2. Continuity:
    a. What does our excretory system do? (2x)

    b. Flatworms: have to get rid of: _____ and _____.

    They use protonephridia – which has a _____ cell that creates a current in a tube.
    c. Earthworms use metanephridia – have added in the _____ system, which wraps around a tube to get rid of wastes.

    d. Vertebrates: we use a nephron (millions) in our kidneys – again a _____ and the circulatory system wrapped around it in order to get rid of wastes and generate a current.

3. Change:
    a. What does the respiratory system do?

    b. Requirements for attaining oxygen: (3x)

    c. What is used in water? _____, its wet, but a low amount of _____

    d. What is used on land? _____,
    e. Progression of lung development:
        i. As the operculum of the fish move it draws water over the _____. It has to be efficient so it can pick up oxygen

        ii. Vertebrates don't need to worry about the amounts of oxygen but we do have to worry about _____

    f. Lung fish has both gills and _____, shows transition.

    g. Amphibians (frog) use positive pressure, like the _____ of the fish which shows evolutionary _____.