AP Biology 043 – Cellular Organelles
Video Review Sheet
www.bozemanscience.com/043-cellular-organelles

1. Introduction:
   a. Role of nucleus: (2)

   b. ER
   i. Rough has

   ii. Ribosomes function:

   iii. Smooth ER responsible for (2)

   c. Golgi complex: newly made proteins are transported here and can go: (2)

   d. Lysosomes break

   e. Vacuole is important in

   f. Energy organelles:
      i. Mitochondria for making

      ii. Chloroplasts make:

2. Ribosomes:
   a. What are ribosomes made up of? (2)

   b. Where is it synthesized?

   c. How many subunits make up a ribosome?

   d. Why does mRNA go through the middle?

3. Endoplasmic Reticulum:
   a. What is the ER usually attached to?

b. Rough ER has ribosomes on it so

   c. Smooth ER is where lipids are synthesized. (Mentioned above) d. The function of the ER is to be a lattice so cells can

4. Golgi Complex:
   a. Tell about some of the accomplishments of Camillo Golgi

   b. Purpose: takes information that is made in the ER and

5. Lysosome:
   a. Purposes: (3 discussed)

   b. Why is it referred to as the "suicide sack"?

6. Mitochondria:

a. Purpose:

   b. Why is their folding on the cristae and why is that significant?

7. Vacuole Purposes:

8. Chloroplast:
   a. Purpose:

   b. The reason there is increased surface area is for: (2)