

Digestion Essay Notes

1. **Baked Potato or Bun**
2. **Steak or Turkey**
3. **Sour Cream, Butter or Mayonnaise**
4. **The original source of energy for all food is the sun through photosynthesis (more details)**
5. **Chew the food or break the food into smaller particles**
6. **Moves the food around to allow the teeth to chew**
7. **The hard palate provides a surface to chew against and the soft palate closes the nasal passage when swallowing.**
8. **Secreted by the salivary glands to breakdown starches (carbohydrate) (baked potato or bun)**
9. **The epiglottis covers the trachea so when we swallow the food goes down the esophagus and not the airway.**
10. **A series of smooth muscle contractions moving the food to the stomach.**
11. **Cardiac sphincter**
12. **Keep food from going back up the esophagus**
13. **The stomach churns and mixes the food.**
14. **Kills harmful bacteria and activates pepsin**
15. **Breakdown proteins (steak or turkey)**
16. **Protect the stomach lining from the hydrochloric acid**
17. **3-4 hours**
18. **Some absorption of medicines**
19. **Some absorption of alcohol**
20. **Some absorption of water**
21. **Pyloric sphincter**
22. **Regulate the flow of chyme (broken down food) to the small intestine**
23. **Duodenum**
24. **Jejunum**
25. **Ileum**
26. **Breakdown remaining carbohydrates into monosaccharides (simple sugars).
Breakdown remaining proteins into amino acids.**
27. **Bile**
28. **Break up fats (butter, sour cream, mayonnaise)**
29. **Gallbladder**
30. **The pancreas secretes enzymes that will further breakdown starches, proteins and fats (amylase, trypsin & lipase)**
31. **5-6 hours or more**
32. **Absorption of the nutrients occurs in the small intestine at the villi and microvilli**
33. **Monomers include: monosaccharides from carbohydrates, amino acids from proteins and fatty acids from fats.**
34. **Provide energy**
35. **Build and repair tissues**
36. **Provide energy and build cell membranes**
37. **Absorb water, minerals and vitamins**
38. **4-6 hours or more**
39. **Produce vitamins such as vitamin K**
40. **The large intestine will secrete mucus to aid in the elimination of waste out of the anus.**