**Digestion Magic School Bus Extension Questions**

1. What is the name of the process of muscular waves that is pushing the school bus (& all the food) down Arnold’s digestion system? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. The purpose of the villi is to increase the surface area of the small intestine so that more food may be exposed to the walls & digest quicker. Not shown in this episode on the surface of the villi, are even smaller prongs that make the surface area of the small intestine even larger. What are these called? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. When the bus leaves the stomach, the kids get out of the school bus & swim through the small intestine. Why are they not burnt by the highly acidic stomach acid? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. As the bus is leaving the stomach, one of the kids is worried that Arnold has a hole in his stomach. Miss Frizzle assures him that it is not a hole but a valve: the doorway to his small intestine! What is this doorway called?**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. In the large intestine, the food is dried up & prepared for waste. To aid this process are many other organisms that live inside your body. What type of organisms are they?
3. As the food enters the small intestine from the stomach, it gets a dose of extra digestive enzymes to help the digest what is left still undigested from the stomach. Where do these enzymes come from? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. When nutrients are absorbed through the villi in the small intestine, they are taken away to be used throughout the rest of the body. How do they travel from this point on? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. In humans like Arnold, roughly how long is the small intestine? How about the large intestine?

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What do we call the package of food that you have chewed up and your tongue has rolled into a ball to go down the oesophagus? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. The liver aids in digestion by producing a green liquid called bile.
   1. After it is made in the liver, where is the bile stored until it is used in digestion? **\_\_\_\_\_\_\_\_\_\_**
   2. When it is ready to be used it is shot into the duodenum. This is the start of which organ in the digestive system? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   3. What type of food does the bile help to break down? **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**