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Frog Dissection Coloring

When the abdominal cavity of the frog is opened, many organs of the digestive and urogenital systems can be observed. As you read the descriptions of the organs below, color them on the diagram.

1. Leading from the mouth is a tube that connects to the stomach. Color the **esophagus** pink.
2. The largest organ is the **liver**, and it consists of multiple lobes. Color the right lobe (a) light brown. Color the left anterior lobe (b) medium brown, and the left posterior (c) lobe dark brown. The liver has several jobs related to digestion and detoxification.
3. Tucked under the liver is the **gall bladder**, which stores bile that is produced by the liver. color the gall bladder green and the bile duct (3b) a darker green.
4. The gall bladder connects to the **duodenum** of the small intestine. Color the duodenum light blue.
5. The duodenum connects to the curly part of the small intestine known as the **ileum**. The ileum is where nutrients are absorbed into the blood. Color the ileum dark blue.
6. The **spleen** is an organ that has an immune function and is found within the coils of the intestine. Color it red.
7. The ileum connects to the large intestine and the cloaca. Water is reabsorbed in the **large intestine** and wastes are stored at the **cloaca** before exiting the **anus**. Color this area orange.
8. At the lowest part of the abdominal cavity is a thin pouch for storing urine. Color the **bladder** yellow.
9. The **stomach** can be viewed if you lift the liver and is often curved, this is the first site of chemical digestion in the frog. Color the stomach orange.
10. Within the curve of the stomach is a gland called the **pancreas**. The pancreas is involved in the digestion and the uptake of sugars. Color the pancreas yellow.
11. The coils of the small intestine are held together by a thin membrane called the **mesentery**. Color it pink.
12. A female frog will have tiny curling tubes deep in the abdominal cavity that carry eggs. Color the **oviducts** red.
13. Also deep within the cavity are bean shaped organs, the kidneys which filter wastes from the blood, creating urine which is then stored in the bladder. Color the **kidney** grey.

Task – after reading the descriptions, write down the structure based on the description. Use the bold words above.

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| <u>oviducts</u> | Carries eggs in female frogs |
| <u>Stomach</u> | First site of chemical digestion |
| <u>Cloaca</u> | Stores solid waste, eggs, sperm |
| <u>Kidney</u> | Filters blood, makes urine |
| <u>Pancreas</u> | Digestion, uptake of sugar |
| <u>Spleen</u> | Holds the coils of small intestine |
| <u>Bladder</u> | Stores urine |
| <u>duodenum</u> | First part of the small intestine |
| <u>Gall bladder</u> | Stores Bile |

