**Lesson 2: Comparing the Respiratory Systems of Animals**

**Answer KEY**

**Directions**: Use your notes from the jigsaw activity on animal respiratory systems to answer the following questions.

**Insects**

1. How does air get into an insect’s body? *Air gets into an insect’s body through spiracles, tiny holes in the abdomen.*
2. How do insects send oxygen to their cells? *Oxygen goes through spiracles, then through tubes called tracheae, and then into the cells*.

**Fish**

1. What body part do fish use to breathe? *Fish use gills to breathe*.
2. Where do fish get oxygen? *Oxygen for fish comes from water*.

**Birds**

1. How are bird lungs different than human lungs? *They have an opening at each end and special air sacs before the lungs to store air in*.
2. Why do birds need more oxygen in their bodies than humans? *Birds use a lot of energy when they are flying and they need more oxygen to get energy from the food they eat. Also, they fly high in the air where there is not as much oxygen*.

**Mammals**

1. What are alveoli? *Alveoli are the tiny air sacs in the lungs where the blood picks up oxygen to carry it to the cells in our bodies*.
2. Why do humans breathe fast when we exercise? *Humans use energy for exercise and our cells need to use oxygen to get the energy from out food. We breathe faster to get more oxygen from the air.*

**Reptiles**

1. What do reptiles use to breathe? *Reptiles use lungs to breathe*.
2. How do reptiles breathe differently than humans? *Reptiles breathe by moving the throat or ribs to move air in and out. Humans have a muscle called a diaphragm that controls the flow of air in and out of the lungs.*