Station #1 –

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| **Respiration:**  | **Heart:** \_\_\_\_\_Chambers: \_\_\_\_ Atria/\_\_\_\_\_Ventricles **Result:**  | **Reproduction:**   |
| **Questions**: How complex are these lungs? Simple, Mid, Complex - How would this effect an animals life style?What is the benefit of 4 chambers?Does internal gestation (carrying the baby/babies inside the female) show a lot of investment in the offspring? Why or why not?Hypothesize what species this comes from: (If…Then…Because…) |

Station #2 –

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| **Respiration:**  | **Heart:** \_\_\_\_Chambers: \_\_\_Atria/\_\_\_Ventricle**Result**:  | **Reproduction:**  |
| How complex are these gas exchange organs? Simple, Mid, Complex - How would this effect an animals life style?Why would an animal need only a 2-chambered heart?Where would this organism have its offspring/lay its eggs?Hypothesize what species this comes from: (If…Then…Because….)  |

Station #3 –

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| --- | --- | --- |
| **Respiration:**  | **Heart:** \_\_\_\_ Chambers: \_\_\_Atria/\_\_\_\_Ventricle**Result**:  | **Reproduction:**  |
| What is the purpose of air sacs? How complex are these lungs/airsacs? Simple, Mid, Complex - How would this effect an animals life style?Would air sacs improve respiration, or hinder it? Hint: Think about respiration in terms of surface area for gas exchange. What level of mobility/activity would you expect from an organism with a 4-chambered heart?Where would this organism have its offspring/lay its eggs?Hypothesize what species this comes from: (If…Then…Because….)   |

Station #4 –

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| **Respiration:**  | **Heart:** \_\_\_\_ Chambers: \_\_\_Atria/\_\_\_\_Ventricle**Result**: | **Reproduction:**   |
| **Questions:** How complex are these lungs? Simple, Mid, Complex - How would this effect an animals life style?What level of activity would you expect from an organism with a 3-chambered heart? Where would this organism have its offspring/lay its eggs?Hypothesize what species this comes from: (If…Then…Because….)  |

Station #5 –

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|  | **Heart:** \_\_\_\_ Chambers: \_\_\_Atria/\_\_\_\_Ventricle**Result**:  | **Reproduction:** |
| **Questions:**How complex are these lungs? Simple, Mid, Complex - How would this effect an animals life style?What level of activity would you expect from an organism with a 3-chambered heart? Where would this organism have its offspring/lay its eggs?Hypothesize what species this comes from: (If…Then…Because….)  |

1. Check your answers with the teacher
2. Organize these species in order of overall complexity
3. Draw the evolutionary relationship that you hypothesize these species hold – be creative, I want to see how you would arrange them before we discuss how evolutionary biologist do.