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.