**BIOL 301 – Reverse Lecture Quiz #5** **NAME:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Fill out the chart:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Onagraceae** | **Brassicaceae** | **Malvaceae** |
| **Why do we care?** |  |  |  |
| **Habit** |  |  |  |
| **Leaf arrangement** |  |  |  |
| **Leaf composition and other vegetative characters** |  |  |  |
| **Significant reproductive structures** |  |  |  |
| **Ovary Position** |  |  |  |

1. How do the terms emarginate and valvate apply to the Onagraceae?
2. Did you come across the term “replum”? What does it mean? It’s diagnostic for the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ family.
3. Explain the similarities and differences between a silique and a silicle.
4. Is mustard gas derived from members of the Brassicaceae, the mustards?
5. Which essential chemical element is required in unusually large amounts by members of the Brassicaceae?
6. What is an epicalyx?
7. What is so diagnostic about the stamens of the Malvaceae?
8. How did you learn about these families? What resources did you use? Are you using new resources as we continue with the reverse lecture process? Do you feel comfortable about your level of understanding?
9. Did this quiz adequately capture your knowledge of these families? Is there anything else that you learned that is interesting and/or significant?