

## Bio 30 Genetics Completion Instructions

Follow the steps below to complete the unit. All files and PowerPoints referenced are found on my web page.

1. Watch the following intro video on heredity.  
<https://www.youtube.com/watch?v=CBezq1fFUEA&index=9&list=PL3EED4C1D684D3ADF>
2. Watch the following videos on Meiosis.  
[https://www.youtube.com/watch?v=VzDMG7ke69g&ab\\_channel=AmoebaSisters](https://www.youtube.com/watch?v=VzDMG7ke69g&ab_channel=AmoebaSisters)
3. Meiosis PowerPoint.
4. Moving forward please ensure you have your "Genetics Package" in front of you. I will print this for you so you can fill it in as you watch the videos I have prepared for you.
5. Watch the following video and copy examples into your notes package.  
**Genetics Intro** <https://www.youtube.com/watch?v=Qsxz-IPXYzg>
6. Watch the following video and copy examples into your notes package.  
**Monohybrid Examples** <https://www.youtube.com/watch?v=7Ms-knP0zIA>
7. Watch the following video and copy examples into your notes package.  
**Test Cross** <https://www.youtube.com/watch?v=nvkHyfCSxw&t=15s>
8. **Assignment #1 Monohybrid Crosses Part One.** Questions can be found in the Genetics Package or online. Answer keys are provided. Do questions on loose leaf. You **MUST** show your work.  
**Assignment #1 Monohybrid Questions 1-3,5ab,8,9 (first half of assignment #1)**
9. Watch the following video and copy examples into your notes package.  
**Incomplete Dom** <https://www.youtube.com/watch?v=lioc7IssDbc>
10. Watch the following video and copy examples into your notes package.  
**Co-Dominance** [https://www.youtube.com/watch?v=ICj\\_dh99nfw&t=316s](https://www.youtube.com/watch?v=ICj_dh99nfw&t=316s)
11. **Assignment #1 Monohybrid Crosses Part Two.**  
**Assignment #1 Monohybrid Questions 10,13,15,17,20,23,27-31,36 (second half of assignment #1)**
12. Watch the following video and copy examples into your notes package.  
**Sex Linked** <https://www.youtube.com/watch?v=ZrNJgnnveRg>

13. **Assignment #2 Sex-Linked Genetics.** Questions can be found in the Genetics Package or online. Answer keys are provided. Do questions on loose leaf. You **MUST** show your work.  
**Assignment #2 Sex-Linked Questions: 1,2,3,5,6,10**
14. Watch the following video and copy examples into your notes package.  
**Dihybrid Cross** (NOTE: the first 6 minutes are blank so skip past that...oops)  
<https://www.youtube.com/watch?v=a-U1mKnJ5Y>
15. **Assignment #3 Dihybrid Crosses.**  
Questions can be found in the Genetics Package or online. Answer keys are provided. Do questions on loose leaf. You **MUST** show your work.  
**Assignment #3 Dihybrid Questions: 1,2,7,8,13,16,18,20**
16. Watch the following video and copy examples into your notes package.  
**Pedigree Charts** <https://www.youtube.com/watch?v=BQjiqDpneso>
17. **Assignment #4 Pedigree Charts.**  
Questions can be found in the Genetics Package or online. Answer keys are on my webpage. Do your work directly in Genetics Package. You **MUST** show your work.  
**Assignment #4 Pedigree Practice Questions: 1-12**
18. You are now ready to take the final exam.

#### Summary of Assignments

Assignment #1 Monohybrid Questions 1-3,5ab,8,9,10,13,15,17,20,23,27-31,36

Assignment #2 Sex-Linked Questions: 1,2,3,5,6,10

Assignment #3 Dihybrid Questions: 1,2,7,8,13,16,18,20

Assignment #4 Pedigree Practice Questions: 1-12