

# Biology EOC Video Review

## 1. *Nature of Science/Intro to Biology*

- a. Nature of Science- <https://www.youtube.com/watch?v=77TFiYWPxoQ>
- b. Scientific Method- <https://www.youtube.com/watch?v=GKGtkzgKfkC>
- c. Characteristics of Life- <https://www.youtube.com/watch?v=cQPvXrV0GNA>

## 2. *Organic Compounds/Biomolecules*

- a. <https://www.youtube.com/watch?v=YO244P1e9QM>
- b. <https://www.youtube.com/watch?v=QWf2jcznLsY>

## 3. *Cell Structure and Function*

- a. Prokaryotes Vs. Eukaryotes- <https://www.youtube.com/watch?v=Pxujitlv8wc>
- b. Cell & Organelles- <https://www.youtube.com/watch?v=8llzKri08kk>
- c. Cell Specialization- <https://www.youtube.com/watch?v=wNe6RuK0Ffa>

## 4. *Botany*

- a. Plants- [https://www.youtube.com/watch?v=X4L3r\\_XJW0I](https://www.youtube.com/watch?v=X4L3r_XJW0I)
- b. Plant Structure- [https://www.youtube.com/watch?v=zHp\\_voyo7MY](https://www.youtube.com/watch?v=zHp_voyo7MY)
- c. Plant Structure and Adaptation- <https://www.youtube.com/watch?v=DGpPHrLF-5M>
- d. Plant Reproduction/Angiosperms- <https://www.youtube.com/watch?v=HLYPm2idSTE>

## 5. *Photosynthesis*

- a. <https://www.youtube.com/watch?v=uixA8ZXx0KU>
- b. <https://www.youtube.com/watch?v=g78utclQrJ4>

## 6. *Cellular Respiration*

- a. Fermentation- [https://www.youtube.com/watch?v=YbdkbCU20\\_M](https://www.youtube.com/watch?v=YbdkbCU20_M)
- b. <https://www.youtube.com/watch?v=4Eo7JtRA7lg>
- c. <https://www.youtube.com/watch?v=4Eo7JtRA7lg>
- d. <https://www.youtube.com/watch?v=7J4LXs-oDCU>

## 7. *DNA & Replication*

- a. DNA- <https://www.youtube.com/watch?v=POdWsiI7AI>
- b. DNA Replication- <https://www.youtube.com/watch?v=5qSrmeiWsuc>

## 8. *RNA & Protein Synthesis*

- a. DNA vs. RNA- <https://www.youtube.com/watch?v=ruUf7ntRcK8>
- b. Protein Synthesis- <https://www.youtube.com/watch?v=oefAI2x2CQM>
- c. <https://www.youtube.com/watch?v=2BwWavExcFl>
- d. <https://www.youtube.com/watch?v=x5ZXQo-xeMo>

## 9. *Biotechnology*

- a. Introduction to Biotechnology- <https://www.youtube.com/watch?v=bvUsliVXcsg>
- b. Cloning- [https://www.youtube.com/watch?v=q0B9Bn1WW\\_4](https://www.youtube.com/watch?v=q0B9Bn1WW_4)
- c. Bacterial Transformation- <https://www.youtube.com/watch?v=hZMRDx1g9OA>
- d. Stem Cells- <https://www.youtube.com/watch?v=aAGaPH3s74g>
- e. How cells become specialized- [https://www.youtube.com/watch?v=t3g26p9Mh\\_k](https://www.youtube.com/watch?v=t3g26p9Mh_k)
- f. Genetically Modified Organisms- <https://www.youtube.com/watch?v=JMPE5wIB3Zk>

## 10. Mitosis

- a. Sexual vs. Asexual Reproduction- <https://www.youtube.com/watch?v=fcGDUcGjcyk>
- b. Cell Cycle- <https://www.youtube.com/watch?v=QVCjdNxjreE>
- c. Mitosis- <https://www.youtube.com/watch?v=f-lDPgEfAHI>
- d. Cell Cycle & Mitosis- <https://www.youtube.com/watch?v=2aVnN4RePyI>

## 11. Meiosis

- a. Chromosome number during division- <https://www.youtube.com/watch?v=gcz1FOWw0Cg>
- b. Meiosis- <https://www.youtube.com/watch?v=VzDMG7ke69g>
- c. Meiosis (Another one)- <https://www.youtube.com/watch?v=16enC385R0w>

## 12. Genetics

- a. Intro to genetics- <https://www.youtube.com/watch?v=v8tJGlicgp8>
- b. How pea plants helped up understand genetics- <https://www.youtube.com/watch?v=Mehz7tCxjSE>
- c. Alleles vs. Genes- <https://www.youtube.com/watch?v=pv3Kj0UjiLE>
- d. Mendelian Genetics- <https://www.youtube.com/watch?v=NWqgZUNjDAY>
- e. Punnett Squares- [https://www.youtube.com/watch?v=PyP\\_5EgQBmE](https://www.youtube.com/watch?v=PyP_5EgQBmE)
- f. Punnett Squares- <https://www.youtube.com/watch?v=i-0rSv6oxSY>
- g. Punnett Squares, Dihybrid Crosses- <https://www.youtube.com/watch?v=qIGXTJLrLf8>
- h. Incomplete Dominance, Codominance & Polygenic Traits- <https://www.youtube.com/watch?v=YJHGfbW55I0>
- i. Sex Linked Traits- <https://www.youtube.com/watch?v=h2xufrHWG3E>

## 13. Origins of Life

- a. <https://www.youtube.com/watch?v=fgQLyqWaCbA>
- b. Chemical Evolution - <https://www.youtube.com/watch?v=mRzxTzKlsp8>
- c. Urey Miller Experiment- <https://www.youtube.com/watch?v=NNijmxsKGbc>

## 14. Evolution/Evidence

- a. What is Evolution - <https://www.youtube.com/watch?v=GhHOjC4oxh8>
- b. How Evolution Works- <https://www.youtube.com/watch?v=hOfRN0KiHOU>
- c. Evidence of Evolution - <https://www.youtube.com/watch?v=llEoO5KdPvg>

## 15. Natural Selection/Brain

- a. Natural Selection- Amoeba Sisters- <https://www.youtube.com/watch?v=7VM9YxmULuo>
- b. Natural Selection- Bozeman- [https://www.youtube.com/watch?v=R6La6\\_klr9g](https://www.youtube.com/watch?v=R6La6_klr9g)
- c. Natural Selection- State Clearly- <https://www.youtube.com/watch?v=0SCjhI86grU>
- d. Brain- (you only need to know where the following structures are located, you DO NOT need to know the function- Frontal Lobe, Parietal Lobe, Occipital Lobe, Temporal Lobe, Cerebrum, Cerebellum, Pons, Medulla Oblongata, Brain Stem)- <https://www.youtube.com/watch?v=kMKc8nfPATI>

## 16. Classification

- a. <https://www.youtube.com/watch?v=DVouQRAKxYo>
- b. [https://www.youtube.com/watch?v=tYL\\_8gv7RiE](https://www.youtube.com/watch?v=tYL_8gv7RiE)
- c. <https://www.youtube.com/watch?v=InvlMlopu2A>

## 17. Ecosystems

- a. Bozeman Review- [https://www.youtube.com/watch?v=Ot\\_KmOTYfRA](https://www.youtube.com/watch?v=Ot_KmOTYfRA)
- b. Bozeman Review- <https://www.youtube.com/watch?v=FhaldPmkoNE>

- c. Organism Relationships- <https://www.youtube.com/watch?v=rNjPI84sApQ>
- d. Succession- Amoeba Sisters- <https://www.youtube.com/watch?v=uqEUzgVAF6g>
- e. Succession- Bozeman- <https://www.youtube.com/watch?v=V49lovRSjDs>

### **18. Populations**

- a. Bozeman- <https://www.youtube.com/watch?v=KFViSog6ZJw>
- b. Population Pyramids- <https://www.youtube.com/watch?v=RLmKfXwWQtE>
- c. Population Ecology- <https://www.youtube.com/watch?v=s4Ty2Oo7Mnl>

### **19. Energy Flow**

- a. <https://www.youtube.com/watch?v=lnAKiCtJIA4>
- b. <https://www.youtube.com/watch?v=-oVavgmveyY>

### **20. Human Impact**

- a. Biodiversity- [https://www.youtube.com/watch?v=GK\\_vRtHJZu4](https://www.youtube.com/watch?v=GK_vRtHJZu4)
- b. <https://www.youtube.com/watch?v=5eTCZ9L834s>

### **21. Circulatory System**

- a. [https://www.youtube.com/watch?v=FCimR\\_P9ID0](https://www.youtube.com/watch?v=FCimR_P9ID0)
- b. [https://www.youtube.com/watch?v=7XaftdE\\_h60](https://www.youtube.com/watch?v=7XaftdE_h60)
- c. <https://www.youtube.com/watch?v=5PyDwPelaag>

### **22. Immune System**

- a. <https://www.youtube.com/watch?v=Lb-iMePZhlw>

### **23. Reproductive System**

- a. Female Reproductive System- <https://www.youtube.com/watch?v=ATggNmJEqXw>
- b. Male Reproductive System- <https://www.youtube.com/watch?v=ce-IVjQYws>
- c. Stages of Fetal Development- <https://www.youtube.com/watch?v=0-64jpcVbc4>