

UPGRADE to the Bundle

Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

- ✓ Classroom Ready - Just Print and Go!
- ✓ Active Engagement - Keep Students' Attention
- ✓ Direct Video Link Included

WATCH VIDEO

ALL 40 Episodes with Answer
Keys and Direct Video Link

CLICK HERE



Crash Course Biology (2012) #18: Population Dynamics

Name: _____ Date: _____

You can access the video here → <https://youtu.be/WbPKPaRoTQ?si=bmU2HIMxByrA1xsl>.

1. In population genetics, a _____ is a group of interbreeding individuals of the same species.
2. The study tracks changes in _____ frequency across generations.
3. Natural selection increases the frequency of alleles that improve _____ in a given environment.
4. Sexual selection leads to _____ mating rather than random mating.
5. New alleles can appear when a copying error occurs during meiosis, a _____.
6. Random changes in allele frequency due to chance, especially in small populations, are called _____.
7. _____ introduces or removes alleles when individuals immigrate or emigrate.
8. The hypothetical state with no evolution is the _____ Equilibrium.
9. One requirement for that equilibrium is a _____ population size to minimize drift.
10. Another requirement is _____ selection, meaning no mate-choice bias.
11. In the equilibrium framework, $p + q =$ _____ for a two-allele locus.
12. The genotype frequencies are given by $p^2 + 2pq + q^2 =$ _____.
13. If q^2 equals 0.09, then q equals _____.
14. With $p = 0.70$ and $q = 0.30$, the heterozygote frequency ($2pq$) equals _____.
15. A _____ describes the observable trait, while genotype describes the allele combination.

Crash Course Biology (2012) #18: Population Dynamics - KEY

1. In population genetics, a **population** is a group of interbreeding individuals of the same species.
2. The study tracks changes in **allele** frequency across generations.
3. Natural selection increases the frequency of alleles that improve **fitness** in a given environment.
4. Sexual selection leads to **nonrandom** mating rather than random mating.
5. New alleles can appear when a copying error occurs during meiosis, a **mutation**.
6. Random changes in allele frequency due to chance, especially in small populations, are called **genetic drift**.
7. **Gene flow** introduces or removes alleles when individuals immigrate or emigrate.
8. The hypothetical state with no evolution is the **Hardy-Weinberg** Equilibrium.
9. One requirement for that equilibrium is a **large** population size to minimize drift.
10. Another requirement is **no sexual** selection, meaning no mate-choice bias.
11. In the equilibrium framework, $p + q = 1$ for a two-allele locus.
12. The genotype frequencies are given by $p^2 + 2pq + q^2 = 1$.
13. If q^2 equals 0.09, then q equals 0.30.
14. With $p = 0.70$ and $q = 0.30$, the heterozygote frequency ($2pq$) equals 0.42.
15. A **phenotype** describes the observable trait, while genotype describes the allele combination.

15 Questions

Answer Key Included

Save 85% per worksheet!

Buyer Comments From My Video

Worksheet Bundles

★★★★★ Extremely satisfied "I like the versatility of this. For my more independent students, they can do this for extra credit or sub work. For my classes who need more help, we watch as a class and pause and discuss along the way. Great to help with vocabulary due to videos, and writing."

★★★★★ Extremely satisfied "This is a great resource to challenge my students as well as provide an outline for them as they go. It acts as guided notes to check their understanding and help guide them through the videos."

Buyer Comments From My Video Worksheet Bundles

★★★★★ **Extremely satisfied** "I like the versatility of this. For my more independent students, they can do this for extra credit or sub work. For my classes who need more help, we watch as a class and pause and discuss along the way. Great to help with vocabulary due to videos, and writing."

★★★★★ **Extremely satisfied** "This is a great resource to challenge my students as well as provide an outline for them as they go. It acts as guided notes to check their understanding and help guide them through the videos."

★★★★★ **Extremely satisfied** "This is perfect for my students who have missed class and need a quick review. I also love these for sub days."

★★★★★ **Extremely satisfied** "This bundle will be a great investment for extending learning and challenging my 7th grade classes!"

★★★★★ **Extremely satisfied** "User friendly. Students were engaged and liked the activity."

★★★★★ **Extremely satisfied** "This works great! They can listen on their own with a link in google or as a whole class for kids that need more help with focusing."

★★★★★ **Extremely satisfied** "This is a great lifesaver for easy sub plans and quick reviews."

★★★★★ **Extremely satisfied** "Thank you these are great at building background knowledge and helping my special needs students keep up with their regular."