



**ALBERT**

Albert contains thousands of high-quality questions for students at **various academic levels**, all aligned to current College Board standards.

*Question Features:*

- Expertly aligned
- Authored by current or former educators with deep subject matter expertise
- In-depth explanations



Students use our in-depth explanations to learn from mistakes and address common misconceptions.

Teachers and students know exactly which standards align to each question.

Use this to enrich and remediate based on student needs.

## EXPLANATION

The answer is **Choice 'D'**.

There are five conditions required for a population to be at HW equilibrium: random mating, no natural selection, no mutations, no gene flow, and a large population. Equilibrium is when the allele frequencies for a gene remain constant over time, and evolution is not occurring. **Choice 'D'** states that the population is large, and a stable environment suggests that natural selection may be occurring at a lower rate than a changing environment. A changing environment would result in changes to selection pressures, increasing the natural selection rates.

**Choice 'C'** is incorrect because in a small population, allele frequencies can change significantly due to random events and therefore, a small population is not in Hardy-Weinberg equilibrium. Colonizing a new area also introduces a population to new selection pressures, and natural selection would be expected to increase.

The population described in **Choice 'B'** is presumably exposed to radiation, which can increase mutation rates. The environment of the surrounding area would be expected to undergo changes as well, introducing new selection pressures.

Sexual dimorphism (**Choice 'A'**) describes a population with distinct differences between males and females. One explanation for this phenomenon is sexual selection, with females choosing males based on a specific trait. This trait tends to become more pronounced over time. Sexual selection indicates that mating is not random, and the population is not the most likely of the choices to be at equilibrium.

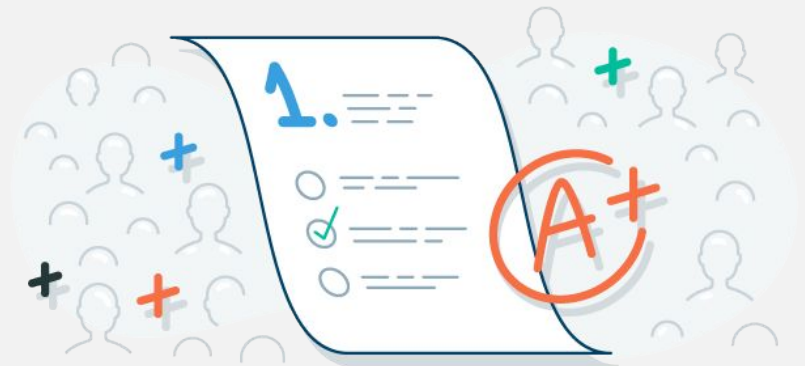
Label	Description
Essential Knowledge	<b>EK 1.A.1.g:</b> Conditions for a population or an allele to be in Hardy-Weinberg equilibrium are: (1) a large population size, (2) absence of migration, (3) no net mutations, (4) random mating and (5) absence of selection. These conditions are seldom met.
Science Practice	<b>SP 5.3:</b> The student can evaluate the evidence provided by data sets in relation to a particular scientific question.
Science Practice	<b>SP 2.2:</b> The student can apply mathematical routines to quantities that describe natural phenomena.
Essential Knowledge	<b>EK 1.A.1:</b> Natural selection is a major mechanism of evolution.
Learning Objective	<b>LO 1.2:</b> The student is able to evaluate evidence provided by data to qualitatively and/or quantitatively investigate the role of natural selection in evolution.

Albert includes thousands of questions so all you need to do is decide which to assign.

# Albert does the grading. Focus your time on instruction and curriculum.

## Grading on Albert:

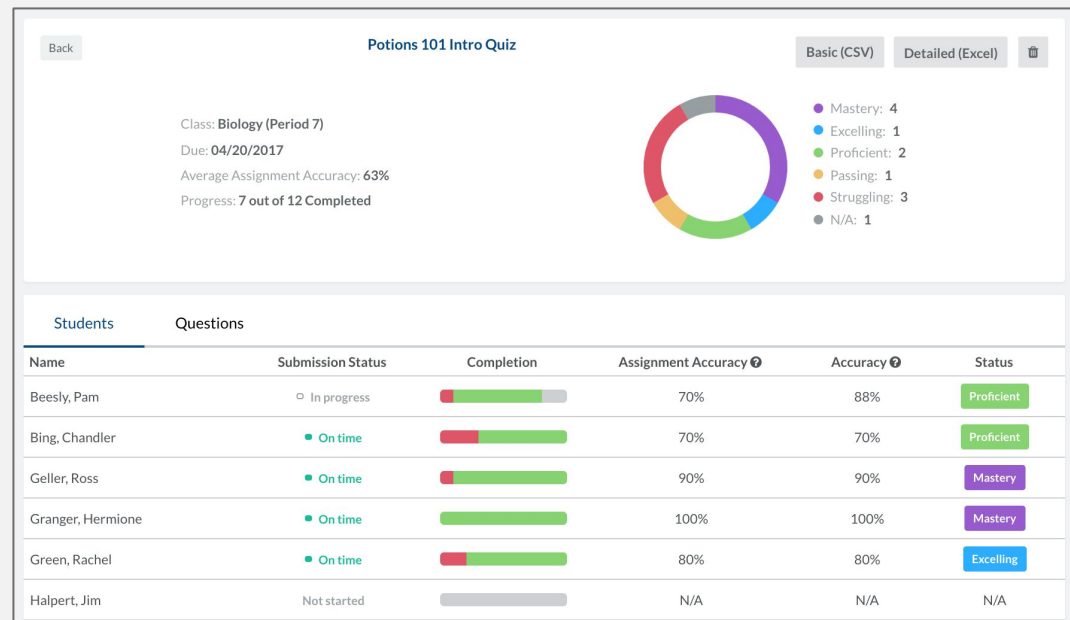
- All assignments are **automatically graded**
- See data breakdowns on the **classroom, single-student, and question levels**
- Student mastery is determined using **advanced data analytics**



Monitor student assignment mastery in real-time, then use data to provide personalized support.

Know exactly which questions and standards students are struggling with.

Adjust instruction based on student needs.



Students	Questions	
Question	Avg. Duration	Performance Breakdown
D Metabolic Processes and Toxic By-Products in Freshwater Fish	19s	<div><div></div></div>
E Cell Membrane Function 2	13s	<div><div></div></div>
M Facilitated Diffusion: Structural Characteristics	6s	<div><div></div></div>
M Cell Signaling: Steroid vs. Protein Hormones	10s	<div><div></div></div>
E Cell Transport: Facilitated Diffusion	10s	<div><div></div></div>
D Intracellular Membranes	8s	<div><div></div></div>
D Glycosylation of Polypeptides	7s	<div><div></div></div>

Albert does the grading for you so you can spend your time focusing on instruction.

# Albert's cutting-edge analytics tools facilitate data-driven instruction

## Data on Albert:

- Full reports **tracking student progress** throughout the year
- Know how much **time students spend** on each question
- See **personalized areas of growth** for each student



ALBERT

Subjects

Classes

Schools

T Teacher

My Coolio Class

Dashboard

Manage Roster

Insights

Settings

Dashboard

Melissa Cong-huyen

Students

Overview

Assignments

Topics

Info

Subject

AP Art History

Attempts

All attempts

Date

All time

Best 3 topics

Art on Different Continents

100% accuracy

Mastery

The Art of Dynastic Egypt

100% accuracy

Mastery

Ancient Mesoamerica

100% accuracy

Excelling

Toughest 3 topics

The Central Andes

33% accuracy

Passing

Asian art Was and Is Global

12% accuracy

Passing

Artists Assume New Roles in Society

0% accuracy

Struggling

Guide level	Time spent	Questions answered	Percent complete	Accuracy	Mastery level
AP Art History					
Global Prehistory	32 min	16 of 30	86%	88%	Mastery
Art on Different Continents	32 min	16 of 30	86%	88%	Mastery
Ancient Mediterranean	32 min	16 of 30	86%	88%	Mastery
Art of the Ancient Near East	32 min	16 of 30	86%	88%	Mastery
Religion's Role in Near East Art	32 min	16 of 30	86%	88%	Mastery

Create customized reports to reveal strengths and areas of growth at the individual level.

Track student progress throughout a topic and differentiate based on individual needs.

Albert's straightforward analytics reports make data-driven instruction easy.

# Thousands of teachers and admin already love Albert:

*“Albert.io proved to be **one of the best investments we’ve made** for our Advanced Placement Program. When I introduced Albert.io to our AP instructors, they were 100% on board. Our **test scores showed a significant increase** over last year’s scores.”*

- Kevin Seidel, AP Coordinator at Huntington Beach High

*“Albert has **helped me save time** and focus on helping my students prepare for what is really important, such as subject mastery and exam preparation. Albert allows me to incorporate technology in my classroom and it **provides interactive exercises** with **custom feedback**”*

- Kiana Uluave, Kahuku High School

*“I think (Albert) is a resource that **really helps students** and **makes teachers’ lives a little bit easier.**”*

- Tom Skiles, Los Osos High School



Contact us to learn more!

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