

ap biology review
2.5 Membrane Permeability

What Can Cross the Membrane?

- 1 **Small nonpolar molecules** like O_2 and CO_2 can slip by the lipid tails and pass straight through the lipid bilayer without any help. These molecules are small and nonpolar.
- 2 **Small polar uncharged molecules** like water can slip through the membrane in small amounts. They are small and have no charge, but they still have some polarity. They can slip through in small amounts.
- 3 **Large polar molecules and ions** like glucose, amino acids, Na^+ , K^+ , and Cl^- cannot cross the membrane on their own. They need transport proteins to help them cross. These molecules are too large and/or have a charge to slip through the lipid bilayer.

How Different Types of Molecules Cross the Membrane

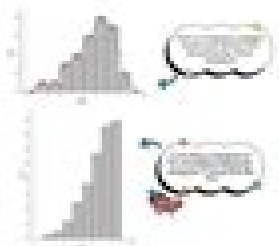
Molecule Type	Examples	Can Cross Easily?	Needs Transport Protein?
Small nonpolar	O_2 , CO_2 , N_2	Yes	No
Small polar uncharged	Water	Yes (in small amounts)	No
Large polar	Glucose, amino acids	No	Yes
Ions	Na^+ , K^+ , Cl^-	No	Yes

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1.5 Representing a Quantitative Variable with Graphs

Remember that a **quantitative variable** for quantitative variables refers to variables that can be measured and are represented by numerical values. Quantitative variables can be further categorized into discrete and continuous variables.

- 1 **Discrete variable**: An attribute or countable number of values. The number of children in a family is an example of a discrete variable. Examples of discrete variables include the number of children in a family, the number of votes in an election, the number of books read in a year, and the number of cars in a parking lot.
- 2 **Continuous variable**: An attribute or countable number of values that can be measured on a continuous scale. Examples of continuous variables include height, weight, and time. Continuous variables can be measured on a scale that has no gaps between values.

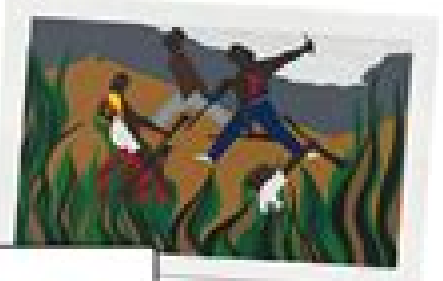
The area under the curve in a histogram and a normal distribution curve. The histogram shows a distribution of data, and the normal distribution curve shows a theoretical distribution of data. The area under the curve represents the probability of a value falling within a certain range.



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2.12 Legacies of the Haitian Revolution

The Haitian Revolution represented a turning point in the history of the Americas. The successful uprising of enslaved and free people of African descent led to the founding of the first Black republic, inspiring other nations.

"The 'Greatest Slave Revolt' in History: From the Life of Toussaint Louverture, Frederick Douglass, 1852." [View on Wikimedia Commons](#)



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3.5 The American Revolution

Causes of the American Revolution

- 1 **British taxation without representation** in the British government.
- 2 **British taxation of trade** and commerce by the Navigation Acts and the Molasses Act.
- 3 **British control over the colonies** of British troops in the colonies.
- 4 **The Intolerable Acts** (Coercive Acts) imposed on the colonies in 1774.
- 5 **The Boston Tea Party** in 1773, which was a protest against British taxation.
- 6 **Support for the colonies** from other nations, including France and Spain.
- 7 **Support for the colonies** from other British subjects.

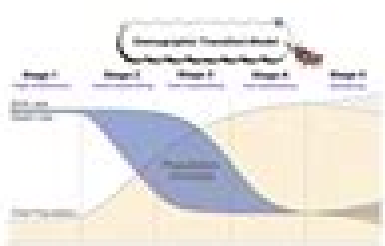
The Boston Massacre

The Boston Massacre took place on March 5, 1770, in Boston, Massachusetts. It was the killing of five American colonists by British soldiers. The incident was a turning point in the American Revolution.

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2.5 The Demographic Transition Model

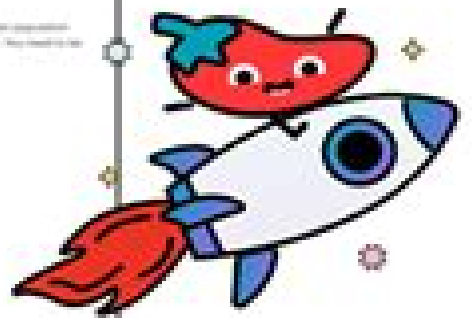
Demographic Transition Model

The Demographic Transition Model (DTM) is a model that describes the changes in population growth and development over time. It is divided into five stages.



Stage 1

Stage 1 is the **highest** of high birth rates and a high death rate. Because of this, the natural increase rate is close to zero. **Slow population growth** is seen in this stage. The birth rate is high and the death rate is high, so the population grows slowly.



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