**Bayes' Rule:**

Bayes' theorem provides a way to revise existing predictions or theories (update probabilities) given new or additional evidence.

**Binomial Distribution Formula:**

P(A|B) =

P(A) = The probability of A occurring

P(B) = The probability of B occurring

P(A|B) = The probability of A given B

P(B|A) = The probability of B given A

P(A∩B) = The probability of both A and B occurring

**Summary**

Probability looks at the likelihood of one event occurring.

Bayes' Theorem allows you to update the predicted probabilities of an event by incorporating new information.