Summarize, represent, and interpret data on two categorical and quantitative variables.

**Standard II.S.ID.5** Summarize categorical data for two categories in two-way frequency tables. Interpret relative frequencies in the context of the data (including joint, marginal, and conditional relative frequencies). Recognize possible associations and trends in the data.

**Concepts and Skills to Master**
- Use a two-way frequency table to show the relationship between two categorical variables.
- Find and interpret joint, marginal and conditional relative frequencies.
- Analyze possible associations and trends in the data.

**Related Standards: Current Course**
- **II.S.CP.1, II.S.CP.4, II.S.CP.5, II.S.CP.6, (IIH.S.CP.2, IIH.S.CP.3)**

**Related Standards: Future Courses**
- **III.S.IC.6, AP Statistics**

**Support for Teachers**

**Critical Background Knowledge**
- Construct and interpret frequencies and relative frequencies in a two-way table (*8.SP.4*)
- Find probabilities of compound events from two way tables (*7.SP.8*)
- Calculate relative frequency (*7.SP.6*)

**Academic Vocabulary**
categorical data, two-way frequency table, relative frequency, joint frequency, marginal frequency, conditional relative frequency

**Resources**
*Curriculum Resources:* [http://www.uen.org/core/core.do?courseNum=5620#78738](http://www.uen.org/core/core.do?courseNum=5620#78738)