

# DLCS Content Standards with Related GAISE II Concepts

## Elementary (K-2)

**DLCS Collaboration and Communication [K-2.DTC.b3]** Use a variety of digital tools to present information to others.

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Analyze the Data III.A.2** Represent the variability of categorical variables or quantitative variables using appropriate displays (e.g., tables, picture graphs, dotplots, bar graphs)

**DLCS Research [K-2.DTC.c2]** Create an artifact individually and collaboratively that answers a research question, while clearly expressing thoughts and ideas.

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Formulate Statistical Investigative Questions I.A.2** Pose statistical investigative questions of interest to students where the context is such that students can collect or have access to all required data

**DLCS Data [K-2.CT.c1 ]** Identify different kinds of information (e.g., text, charts, graphs, numbers, pictures, audio, video, collections of objects.)

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Collect Data/ Consider Data II.A.1** Understand that data are information; recognize that to answer a statistical investigative question, a person may collect data themselves specifically for that purpose, or a person may use data that have been collected by other people for another purpose
- **Collect Data/ Consider Data II.B.7** Understand that data can be collected (primary data) or existing data can be obtained from other sources (secondary data)
- **Analyze the Data III.A.2** Represent the variability of categorical variables or quantitative variables using appropriate displays (e.g., tables, picture graphs, dotplots, bar graphs)

**DLCS Data [K-2.CT.c2]** Identify, research, and collect information on a topic, issue, problem, or question using age-appropriate digital technologies

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Formulate Statistical Investigative Questions I.A.2** Pose statistical investigative questions of interest to students where the context is such that students can collect or have access to all required data
- **Collect Data/ Consider Data II.A.2** Understand how to collect and record information from the group of interest using surveys and measurements collected from observations and simple experiments

- **Collect Data/ Consider Data II.B.4** Recognize that data can be collected using surveys and measurements, and develop a critical attitude in analyzing data collection methods
- **Interpret Results IV.B.1** Use statistical evidence from analyses to answer the statistical investigative questions and communicate results with comprehensive answers and some teacher guidance

**DLCS Data [K-2.CT.c4] Individually and collaboratively, create information visualizations (e.g., charts, infographics).**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Collect Data/ Consider Data II.B.1** Understand that data are information collected and recorded with a purpose and can be organized and stored in a variety of structures (e.g., spreadsheets)

**DLCS Data[K-2.CT.c5] Explain that computers can save information as data that can be stored, searched, retrieved, and deleted.**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Collect Data/ Consider Data II.A.1** Understand that data are information; recognize that to answer a statistical investigative question, a person may collect data themselves specifically for that purpose, or a person may use data that have been collected by other people for another purpose

**DLCS Safety and Security [K-2.CAS.a4] Explain that a password helps protect the privacy of information.**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Collect Data/ Consider Data II.C.8** Understand how concerns about privacy and human subjects may affect the collection and distribution of data

**DLCS Safety and Security [K-2.CAS.a6] Explain why we keep personal information (e.g., name, location, phone number, home address) private.**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Collect Data/ Consider Data II.C.8** Understand how concerns about privacy and human subjects may affect the collection and distribution of data

**DLCS Safety and Security [K-2.CAS.a7] Identify which personal information (e.g., user name or real name, school name or home address) should and should not be shared online and with whom.**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Collect Data/ Consider Data II.C.8** Understand how concerns about privacy and human subjects may affect the collection and distribution of data

## **Elementary (3-5)**

**DLCS Research [3-5.DTC.c1] Identify digital information sources to answer research questions (e.g., online library catalog, online encyclopedias, databases, websites).**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- Formulate Statistical Investigative Questions I.A.1: Understand when a statistical investigation is appropriate
- **Formulate Statistical Investigative Questions I.A.2** Pose statistical investigative questions of interest to students where the context is such that students can collect or have access to all required data

**DLCS Research [3-5-DTC-c3] Evaluate digital sources for accuracy, relevancy, and appropriateness.**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Collect Data/ Consider Data II.A.6** Understand that data are not always pristine but may contain errors, have missing values, etc., and that decisions have to be made about how to account for these issues

**DLCS Data [3-5.CT.c1] Describe examples of databases from everyday life (e.g., library catalogs, school records, telephone directories, contact lists).**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Collect Data/ Consider Data II.A.1** Understand that data are information; recognize that to answer a statistical investigative question, a person may collect data themselves specifically for that purpose, or a person may use data that have been collected by other people for another purpose

**DLCS Data [3-5.CT.c1 and c2] 1) Describe examples of databases from everyday life (e.g., library catalogs, school records, telephone directories, contact lists). 2) Individually and collaboratively collect and manipulate data to answer a question using a variety of computing methods (e.g., sorting, totaling, averaging) and tools (such as a spreadsheet) to collect, organize, graph, and analyze data.**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Collect Data/ Consider Data II.B.1** Understand that data are information collected and recorded with a purpose and can be organized and stored in a variety of structures (e.g., spreadsheets)
- **Collect Data/ Consider Data II.B.7** Understand that data can be collected (primary data) or existing data can be obtained from other sources (secondary data)

**DLCS Abstraction [3-5.CT.a2] Organize information in different ways to make it more useful/relevant (e.g., sorting, tables).**

**Related GAISE II concepts that can be addressed while focused on this DLCS standard:**

- **Analyze the Data III.A.2** Represent the variability of categorical variables or quantitative variables using appropriate displays (e.g., tables, picture graphs, dotplots, bar graphs)