

Data Literacy Fundamentals for 9th Grade

Strengthen foundational skills in spotting credible evidence and organizing digital archives to navigate the information-heavy world of high school research.

1. When researching the impact of microplastics on marine life, which source would likely provide the most authoritative data for a 9th-grade science report?

- A. A personal blog post sharing beach cleanup photos
- B. An anonymous thread on a social media forum
- C. A report from the National Oceanic and Atmospheric Administration (NOAA)
- D. An advertisement for a brand of eco-friendly water bottles

2. True or False: Using a dataset from 1995 to predict tomorrow's smartphone market trends is an example of using relevant and timely data.

- A. True
- B. False

3. A student organizes their history project interviews by naming files 'Interview_Smith_2023' and 'Interview_Jones_2023'. This practice is an example of _____.

- A. Data collection
- B. Data management
- C. Data visualization
- D. Data bias

4. You find a graph showing that ice cream sales and shark attacks both increase in July. Attributing shark attacks to ice cream consumption is a failure in which skill?

- A. Data encryption and security
- B. Finding primary sources
- C. Interpreting and using data correctly
- D. Backing up digital records

5. True or False: If a website looks professional and has many followers, the data it presents is guaranteed to be accurate.

- A. True
- B. False

6. Which of the following is a key step in protecting sensitive research data on a laptop?

- A. Deleting the files after every use
- B. Setting a strong password and using encryption
- C. Sharing the login info with classmates for backup
- D. Storing all data on the public school desktop

Name: _____ Date: _____

7. When a researcher only looks for data that confirms what they already believe, they are demonstrating ____.

- A. Confirmation bias
- B. Data ethics
- C. Spreadsheet logic
- D. Cloud storage

8. True or False: Citations are a part of data literacy because they allow others to verify the source and reliability of the data you use.

- A. True
- B. False

9. What is the best way to handle a situation where two different credible news agencies report slightly different numbers for a local election?

- A. Ignore both sets of data and make up a number
- B. Pick the number that you like better
- C. Cross-reference with a third primary source, like the official city clerk's office
- D. Assume the data is useless because it doesn't match

10. If you are creating a map of local parks for a geography project, using the most recent 'Open-StreetMap' data is an example of ____.

- A. Data entry
- B. Finding data
- C. Data encryption
- D. Data destruction