NORTH DAKOTA
NDDPI DEPARTMENT OF
PUBLIC INSTRUCTION

Disciplinary Literacy in North Dakota Content Standards

Literacy and text are specialized across the disciplines. Each discipline has a unique way of using text to create, disseminate, and evaluate knowledge. Strategies employed by learners as they encounter disciplinary text come from the demands of the text and the purpose of the specific discipline.

The information below identifies some of the strategies for disciplinary literacy in various disciplines and aspects of the specific content standards within that discipline that refer to those strategies.

Science

Disciplinary literacy in science focuses on the following:

Reading	Writing	Thinking
• Ask "Why?" questions. • Interpret data, charts, and illustrations. • Understand concepts and vocabulary. • Determine the validity of sources and quality of evidence presented. • Read closely to pay attention to details.	• Use precise scientific vocabulary. • Use passive voice. • Writing favors the exactness of the information. • Synthesize evidence and focus on methods used to gather evidence. • Include phrases, bullets, graphs, or sketches.	• Create questions based on curiosity. • Rely on prior knowledge or research. • Consider new evidence or a conclusion (hypothesis). • Propose explanations. • Create solutions in authentic situations.

"Disciplinary Literacy: A shift that Makes Sense" Releah Lent (2017)

The North Dakota Science Content Standards address disciplinary literacy with Science and Engineering Practices.

- Ask questions and define problems.
- Develop and use models.
- Plan and carry out investigations.
- Analyze and interpret data.
- Use mathematical and computational thinking.
- Construct explanations and design solutions.
- Engage in argument from evidence.
- Obtain, evaluate, and communicate information.

References:

Lent, Releah. (2017, February) *Disciplinary Literacy: A Shift that Makes Sense*. ASCD Express. ASCD.

Lent, Releah. (2019) *Disciplinary Literacy in Action*: Corwin.

North Dakota Science Standards. (2019, February). Retrieved May 15, 2023, from North Dakota Science Content Standards..