Norfolk Public Schools

NPS Literacy Non-Negotiable: ***Teachers will provide learning experiences where every student reads, writes, communicates, and thinks critically in every classroom, in every school, everyday - no exceptions.***

During Science instruction, students will build conceptual understanding by…

Literacy

Reading

Reading science related material and incorporating a variety of before, during and after reading comprehension strategies, to include:

Before Reading	During Reading	After Reading
Anticipation Guides Passage Prediction Scavenger Hunt	Marking the Text Marginalia Mind Mapping	Somebody Wanted But So Even Dozen Read and Say Something

Writing

Writing to clarify thinking, learn deeper content knowledge, improve thinking skills, and commit content to short- and long-term memory by engaging in a variety of writing strategies, to include:

- Interactive Note-Taking
- Journal Writing/Quick Writes
- Cubing
- RAFT
- Give One, Get One
- Think, Write, Tear, Share

Communicating

Participating in discourse with both self and others to organize knowledge, ideas, or experiences about a topic by –

- Reading text while using a reading strategy, then summarizing salient facts
- Watching a video with a purpose in mind and explaining essential concepts
- Discussing answers to lab investigation questions
- Making links between concepts
- Debating topics by making a claim and providing evidence and reasoning for the claim

Thinking Critically

Thinking critically to investigate, discover, and understand scientific phenomenon using inquiry-based activities that are structured around the *5E Learning Cycle* in which students –

- **Engage** in science-oriented questions
- **Explore** possible answers through investigation
- **Explain** connections to prior knowledge or new understandings based on data
- **Extend** and apply understanding in a new context
- **Evaluate** the validity of ideas and understandings