

Instructional Minutes for Elementary Science with ELA Integration

Elementary science education is critical in developing curiosity and competence in young children’s ability to make sense of the world around them. To this end, elementary science education is included in *Utah Code R277-700-4* as part of the Elementary Education Requirements for students in Utah. To ensure equitable access and opportunity to elementary science, we provide the following resources:

Grade Band	Science Teaching Time	+	Integration (ELA)	Example of Weekly Routine
K-2 40-60 mins weekly	30-45 minutes weekly science investigation	+	10-minute literacy sessions (During the week; build on the science investigation; 1-2 literacy sessions)	<p>Weekly science investigation + disciplinary literacy tasks during instructional block such as:</p> <ul style="list-style-type: none"> • Discuss questions or findings with peers using CCCs • Read about core ideas & topic (include academic language) • Draw a simple model or observation related to the investigation • Write an explanation (use academic language) • Rotate through Science Learning Centers.
3-4 50-90 mins weekly	45 minutes weekly science investigation	+	10-15-minute literacy sessions (During the week; build on the science investigation; 1-2 literacy sessions)	<p>Weekly science investigation + disciplinary literacy tasks during instructional block such as:</p> <ul style="list-style-type: none"> • Discuss phenomenon and/or findings with peers (use CCC) • Conduct further investigation(s) & record observations • Read about core ideas & phenomenon (include academic language) • Construct a model (draw) to explain the phenomenon • Write an explanation/ argue how the evidence supports explanation of phenomenon
5 60- 90 mins weekly	45-60 minutes weekly science investigation	+	15-30-minute literacy sessions (During the week; build on the science investigation; 1-2 literacy sessions)	<p>Weekly science investigation + disciplinary literacy tasks during instructional block such as:</p> <ul style="list-style-type: none"> • Discuss with and present findings to peers (use CCC) • Conduct further investigation & collect data to strengthen model • Analyze data gathered during experimentation • Read about/discuss core ideas that support or refute students’ explanation • Construct a model to explain the phenomenon • Write an explanation/ argue how the evidence supports explanation of phenomenon
6 120-150 mins weekly	<p>Two + 45-minutes science sessions (Can be spaced, such as Tuesday, Thursday) Please note: The 6th grade science core is a part of a middle school (6-8) science core and requires additional instructional time.</p>	+	Two 30-minute literacy sessions (During the week that follow and support the science investigation)	<p>Weekly science investigation + disciplinary literacy tasks during instructional block such as:</p> <ul style="list-style-type: none"> • Discuss phenomenon and/or findings with peers (use CCC) • Listen to peers as they discuss findings and record new insights • Conduct further investigation & collect data to strengthen model • Analyze data gathered during experimentation • Read about and discuss core ideas that support or refute students’ explanation of the phenomenon (include academic language) • Construct a model to explain the phenomenon (include academic language) • Write an explanation/ argue how the evidence supports explanation of phenomenon