

Catapults

Book topic	NGSS K2-ETS1.A, K-2-ETS1-3	A situation that people want to change or create can be approached as a problem to be solved through engineering. Because there is always more than one possible solution to a problem, it is useful to compare and test designs.
	NY SCI 2 Unit 2: 5.1b, 5.1f	The position or direction of motion of an object can be changed by pushing or pulling. Mechanical energy may cause change in motion through the application of force and through the use of simple machines such as pulleys, levers, and inclined planes.
	CA SCI 2.1b-d	Students know an objects motion can be described by recording the change in position of the object over time. Students know the way to change how something is moving is by giving it a push or a pull. The size of the change is related to the strength, or amount of force of that push or pull. Students know tools and machines are used to apply pushed and pulls (forces) to make things move).
	TEKS 2 SCI 6b-d	Force, motion and energy. Trace the changes in the position of an object over time such as a cup rolling on the floor and a car rolling down a ramp.

Comprehension strategies lesson	TEKS G2 6.E	Make connections to personal experiences, ideas in other texts, and society
	TEKS G2 7.A	Describe personal connections to a variety of sources
	TEKS G2 6.D	Create mental images to deepen understanding

Writing activities	CCSS W.2.3	Write narratives in which they recount a well-elaborated event or short sequence of events, include details to describe actions, thoughts, and feelings, use temporal words to signal event order, and provide a sense of closure.
	TEKS G2 12.A	Compose literary texts, including personal narratives and poetry.
	CCSS W.2.2	Write informative/explanatory texts in which they introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section.
	TEKS G2 12.B	Compose informational texts, including procedural texts and reports.
	TEKS G2 12.C	Compose correspondence such as thank you notes or letters.
	CCSS W.2.1	Write opinion pieces in which they introduce the topic or book they are writing about, state an opinion, supply reasons that support the opinion, use linking words (e.g., because, and, also) to connect opinion and reasons, and provide a concluding statement or section.
	CCSS W.2.8	Recall information from experiences or gather information from provided sources to answer a question.
	TEKS G2 7.E	Interact with sources in meaningful ways such as illustrating or writing.

F-L-T correlations	Adjectives	CCSS L.2.1.e	Use adjectives and adverbs, and choose between them depending on what is to be modified.
		TEKS G2 11.D.iv	[Edit using] adjectives, including articles
	Sequences & Procedures	CCSS RI.2.3	Describe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text.
		TEKS G2 9.D.iii	Recognise characteristics and structures of information of informational text, including organizational patterns such as chronological order and cause and effect stated explicitly.
	Silent Letters	TEKS G2 2.B.ii	Decoding words with silent letters such as knife and gnat
		TEKS G2 2.C.ii	Spelling words with silent letters such as knife and gnat
Glossary	CCSS L.2.4e	Use glossaries and beginning dictionaries, both print and digital, to determine or clarify the meaning of words and phrases.	



		TEKS G2 3.A	Use print or digital resources to determine meaning and pronunciation of unknown words
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