

## Text Complexity Analysis

Text complexity analysis			
Created by:	Ryan Connelly	Event/Date:	7/29/14
Text and Author	"A Ball of Energy" by Gabrielle Sierra	Where to Access Text	www.readworks.org
Text Description			
<p><b>“A Ball of Energy” by Gabrielle Sierra is an informational text that gives a brief description of the word energy and its origins. The text then breaks down the different forms of energy and the transformations it can undergo. It is a supplemental piece for use during a unit on energy.</b></p>			
Quantitative			
Lexile and Grade Level	1070L	Text Length	734 words
Qualitative			
Meaning/Central Ideas		Text Structure/Organization	
<p>The article starts with a basic understanding of the word energy and transitions into a deeper understanding of the different forms of energy. The Big Ideas are stated explicitly and can be easily inferred.</p>		<p>The text is organized in a purely informational format. The information is unsophisticated in terms of how it is relayed. There is a photograph of a solar panel to help reinforce the subject of the article.</p>	
Prior Knowledge Demands		Language Features	
<p>Prior knowledge would make this article a reinforcement tool. Students do not need prior knowledge to comprehend the article because it breaks down and defines the vocabulary within the article.</p>		<p>The language is literal, however there are many words that students without prior knowledge would find difficult to comprehend.</p>	
Potential Reader/Task Challenges			
<p>The major challenge is the high volume of scientific vocabulary that students may be unfamiliar with. The unscientific vocabulary is at a grade appropriate level and some words may be challenging as well.</p>			
Big Takeaway			
<p>Describe that energy is required to do any type of work and that it can take many different forms through transformations or transfers.</p>			

## Vocabulary Analysis

	<b>Words that demand less teaching time (i.e. the definition is singular and concrete)</b>	<b>Words that demand more teaching time (i.e. words with multiple meanings and/or that are part of a word family)</b>
<b>Words that can be determined in context</b>	<ul style="list-style-type: none"> <li>• emitting</li> <li>• harnessed</li> <li>• viable</li> <li>• renewable</li> <li>• kinetic energy</li> </ul>	<ul style="list-style-type: none"> <li>• units</li> <li>• currents</li> <li>• panels</li> <li>• channeled</li> <li>• accelerate</li> <li>• translational</li> </ul>
<b>Words that cannot be determined in context</b>	<ul style="list-style-type: none"> <li>• joule</li> <li>• wavelengths</li> <li>• ergs</li> </ul>	