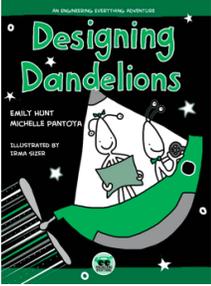
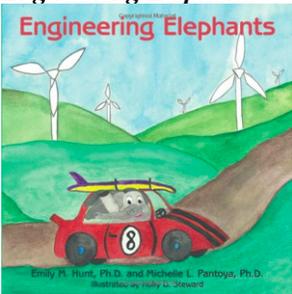
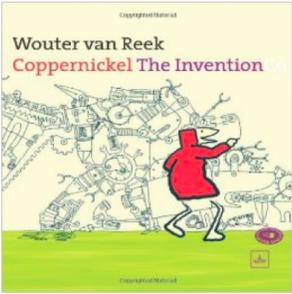
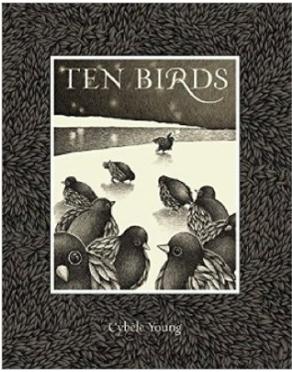


Table 1. List of picture books

Book Titles	Relevant NOE Ideas	Summary of the Book	Sample Questions Posed to Students	CCSS-ELA Reading Literature
<p><i>Designing Dandelions</i></p>  <p>Hunt, E.M., and M.L. Pantoya. 2013. <i>Designing dandelions: An engineering everything adventure</i>. Lubbock, TX: Texas Tech University Press.</p>	<p>Introduction to EDP</p> <p>Creativity and Imagination</p>	<p><i>Designing Dandelions</i> tells the story of aliens repairing their spaceship through applying the engineering design process.</p>	<p>How did aliens use engineering design process to repair their spaceship?</p> <p>Were aliens creative while they were repairing their spaceship? If so, how?</p>	<p>CCSS.ELA-LITERACY.RL.3.7 Explain how specific aspects of a text's <i>illustrations</i> contribute to what is conveyed by the words in a story (e.g., create mood, emphasize aspects of a character or setting)</p>
<p><i>Engineering Elephants</i></p>  <p>Hunt, E.M., and M.L. Pantoya. 2010. <i>Engineering elephants</i>. Bloomington, IN: Author House.</p>	<p>Social and cultural NOE</p>	<p><i>Engineering Elephants</i> attempts to distinguish what engineers can and cannot do.</p>	<p>Do you think what engineers do are useful for people?</p>	<p>CCSS.ELA-LITERACY.RL.3.6 / 4/6 Distinguish their own point of view from that of the narrator or those of the characters. Compare and contrast the point of view from which different stories are narrated, including the difference between first- and third-person narrations.</p>
<p><i>Coppernickel The Invention</i></p>  <p>van Reek, W. 2006. <i>Coppernickel The Invention</i>. Brooklyn, NY: Enchanted Lion Books.</p>	<p>Subjectivity</p> <p>Creativity and Imagination</p>	<p><i>Coppernickel The Invention</i> introduces two friends, Coppernickel the bird and Tungsten the dog, who develop two different design solutions to construct a tool for picking up high-hanging elderberries.</p>	<p>If you have to select between a simple and a complicated design idea achieving the same purpose which one would you choose?</p>	<p>CCSS.ELA-LITERACY.RL.3.7 Explain how specific aspects of a text's <i>illustrations</i> contribute to what is conveyed by the words in a story (e.g., create mood, emphasize aspects of a character or setting).</p>

<p><i>The Most Magnificent Thing</i></p>  <p>Spires, A. 2014. <i>The most magnificent thing</i>. Tonawanda, NY: Kids Can Press.</p>	<p>Tentativeness Failure-laden Creativity and Imagination</p>	<p><i>The Most Magnificent Thing</i> portrays a girl who goes through testing and improving phases several times to build a special scooter for her dog.</p>	<p>How many times did the girl have to try before reaching into her final design idea?</p> <p>Do you think that it is important for engineers to be adamant?</p> <p>How did she use her creativity in designing her special scooter?</p>	<p>CCSS.ELA-LITERACY.RL.3.7 Explain how specific aspects of a text's <i>illustrations</i> contribute to what is conveyed by the words in a story (e.g., create mood, emphasize aspects of a character or setting)</p> <p>CCSS.ELA-LITERACY.RL.3.3/4.3 Describe characters in a story (e.g., their traits, motivations, or feelings) and explain how their actions contribute to the sequence of events. Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text (e.g., a character's thoughts, words, or actions).</p>
<p><i>The Ten Birds</i></p>  <p>Young, C. 2011. <i>Ten birds</i>. Tonawanda, NY: Kids Can Press.</p>	<p>Subjectivity</p>	<p><i>Ten Birds</i> tells the story of ten birds coming up with 10 different solutions to cross a river.</p>	<p>How many different solutions did the birds find to cross the river?</p> <p>Which solution would you prefer? Why?</p> <p>Do you think that engineers can find different solutions to the same problem?</p>	<p>CCSS.ELA-LITERACY.RL.3.7 Explain how specific aspects of a text's <i>illustrations</i> contribute to what is conveyed by the words in a story (e.g., create mood, emphasize aspects of a character or setting).</p>