



### Pre-K 3 – Nature: Roly Polies

<b>Key Questions:</b>	<ul style="list-style-type: none"><li>• What is a roly poly?</li><li>• What are their physical characteristics?</li><li>• How do they move?</li><li>• How do they protect themselves?</li></ul>	 <p><a href="https://en.wikipedia.org/wiki/Armadillidiidae">https://en.wikipedia.org/wiki/Armadillidiidae</a></p>
<b>Learn about Roly Polies:</b>	<ul style="list-style-type: none"><li>• Have you ever seen a roly poly before? You might also call them a potato bug or a pill bug.</li><li>• What do you know about them?</li><li>• What do you want to know?</li><li>• Learn a little more about roly polies by reading or listening to this book: <a href="https://www.uniteforliteracy.com/unite/animals/book?BookId=242">https://www.uniteforliteracy.com/unite/animals/book?BookId=242</a></li></ul>	
<b>Defense Mechanism:</b>	<ul style="list-style-type: none"><li>• Roly polies are able to form their bodies into a ball shape to protect themselves. Another animal that shares this defense mechanism is an armadillo.</li><li>• Take a look at this Armadillo-form Figurine from the Denver Art Museum's collection. <a href="https://denverartmuseum.org/object/1993.509">https://denverartmuseum.org/object/1993.509</a><ul style="list-style-type: none"><li>○ Compare it to an image of a roly poly.</li><li>○ What do you see that's similar?</li><li>○ What's different?</li></ul></li></ul>	
<b>Rolling Painting:</b>	<ul style="list-style-type: none"><li>• Gather some balls from around your house. Add them to a box with a paper lining. Squirt in some paint and start to roll your balls by gently shaking the box.</li><li>• Notice what lines and shapes your rolling ball creates.</li><li>• Try out different types of balls to get different types of artworks.</li></ul>	



<b>Rolling like a Roly Poly:</b>	<ul style="list-style-type: none"><li>• Go outside and find a gently sloping grassy hill that does not have hidden dangers such as rocks, sticks, holes, etc.</li><li>• Pretend to be a roly poly, and roll your body down the hill.</li><li>• Try rolling several times in different positions (curled up tight, log rolling, etc.) and see which you like best. Which made you roll the fastest? Slowest?</li></ul>  <p>SEECstories.com</p>
<b>Create a Roly Poly:</b>	<ul style="list-style-type: none"><li>• Take a look at a photo of a roly poly. What body parts do you see?</li><li>• A roly poly has an exoskeleton made of plates instead of bones, which protects the rest of its body. They have two eyes, two antennae, and fourteen legs.</li><li>• Find some art materials and other items to create a roly poly.<ul style="list-style-type: none"><li>○ Can you find something hard for the exoskeleton?</li><li>○ Can you make your creation roll into a ball?</li></ul></li></ul>
<b>Does it Roll? Experiment:</b>	<ul style="list-style-type: none"><li>• Use books, boxes, boards, etc. to create a ramp.</li><li>• Try to roll different items down the ramp.</li><li>• Did it roll?</li><li>• Which was fastest/slowest? Why?</li><li>• Record your results by:<ul style="list-style-type: none"><li>○ Drawing something that rolled down the ramp.</li><li>○ Drawing something that did not roll down the ramp.</li></ul></li></ul> 