

Rubric for 3rd Grade Biomimicry Prototype Project: Sustainable Design Inspired by Rolly Pollies

Criteria	4 - Exceeds Expectations	3 - Meets Expectations	2 - Approaching Expectations	1 - Needs Improvement
Understanding of Biomimicry & Sustainability	Clearly describes why biomimicry is important to solve real-world problems and explains the link between production and responsible consumption with relevant examples.	Describes why biomimicry is important to solve real-world problems and mentions the relationship to production and responsible consumption.	Provides a basic description of biomimicry or sustainability but lacks clear connection to production or consumption.	Shows little or no understanding of biomimicry or its importance to sustainable production and consumption.
Sketching & Labeling Ideas	Creates detailed, clear sketches with accurate labels that show key features of the prototype inspired by roly pollies.	Produces sketches with labels that show main features of the prototype inspired by roly pollies.	Sketches are incomplete or labels are missing/inaccurate; some key features are unclear.	Sketches are missing or unclear; labels are absent or incorrect.
Application of SDG #12 (Responsible Consumption and Production)	Demonstrates a strong understanding and clear application of SDG #12 in the prototype, specifically relating to Guatemala's context and sustainability.	Shows understanding and application of SDG #12 in the prototype with some reference to Guatemala's context.	Shows limited understanding or vague connection to SDG #12 and Guatemala's context.	Does not demonstrate understanding or application of SDG #12 or Guatemala's context.

<p>Prototype Design (Digital/Physical)</p>	<p>Designs a well-crafted prototype (digital, analog, or 3D printed) that clearly reflects roly polly characteristics and is thoughtfully sustainable.</p>	<p>Designs a complete prototype that reflects roly polly characteristics and shows sustainability efforts.</p>	<p>Prototype is incomplete or only somewhat reflects roly polly features and/or sustainability is unclear.</p>	<p>Prototype is missing, incomplete, or does not reflect roly polly characteristics or sustainability.</p>
<p>Presentation & Communication</p>	<p>Presents prototype clearly and confidently, explaining why it is a biomimicry invention and its sustainability with strong supporting details.</p>	<p>Presents prototype and explains why it is a biomimicry invention and sustainable with adequate detail.</p>	<p>Presentation is unclear or incomplete; explanation of biomimicry or sustainability is weak or missing details.</p>	<p>Presentation is missing or does not explain the biomimicry or sustainability aspects of the prototype.</p>