

Student Name:

Food Webs Graphic Novel Rubric

Requirement	1- Does not meet	2 - Partially Meets	3 - Meets	4 - Exceeds
Shows how plants produce their own food through the process of photosynthesis (5-LS3-1)	<ul style="list-style-type: none"><input type="checkbox"/> Does not show the process of photosynthesis through words or pictures.	<ul style="list-style-type: none"><input type="checkbox"/> Begins to show the process of photosynthesis, but does not fully or accurately demonstrate an understanding that plants are converting carbon dioxide, sunlight, and water into food that they need. For example, student leaves out one of the ingredients from the description or picture of photosynthesis.	<ul style="list-style-type: none"><input type="checkbox"/> Shows through description or picture that photosynthesis is the process of a plant producing its own food by capturing sunlight, carbon dioxide from the air, and water from the roots.	In addition to correctly describing or showing photosynthesis, the description: <ul style="list-style-type: none"><input type="checkbox"/> Shows that the waste a plant produces is oxygen<input type="checkbox"/> Includes terminology such as chloroplasts or chlorophyll
Shows that plants, animals, decomposers, soil and air are all connected in a cycle, and what actually cycles through, in addition to energy (5-LS2-1)	<ul style="list-style-type: none"><input type="checkbox"/> Does not show a food web/ food chain through images or description.	<ul style="list-style-type: none"><input type="checkbox"/> Starts to show a food chain/food web but does not show why it is a cycle.<input type="checkbox"/> Does not include a producer, consumer, and decomposer.	<ul style="list-style-type: none"><input type="checkbox"/> Clearly shows a food chain/web that shows the relationship between producers, consumers, and decomposers, and how it is linked in a cycle.	<ul style="list-style-type: none"><input type="checkbox"/> Describes how decomposers return nutrients to the ecosystem.

Requirement	1- Does not meet	2 - Partially Meets	3 - Meets	4 - Exceeds
<p>Shows why it is that the energy in an animal's food was once energy from the sun (5-PS3-1)</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Does not show that energy in an animal's food was once energy from the sun. 	<ul style="list-style-type: none"> <input type="checkbox"/> Creates a food chain but can't link the chain back to the sun. 	<ul style="list-style-type: none"> <input type="checkbox"/> Describes a food chain through the story, or creates a visual representation of a food chain, which clearly shows how each consumer's energy/matter is linked to the previous consumer, the plant, and the sun. 	<ul style="list-style-type: none"> <input type="checkbox"/> Describes energy at a chemical level, understanding that the energy from the food/matter we consume is broken down into sugar which our cells need to give us and all organisms life. <input type="checkbox"/> Shows the different forms of energy in the body, such as heat, movement, growth, etc.
<p>Answers one of the following questions:</p> <ol style="list-style-type: none"> 1. How do our actions negatively impact food webs? 2. Why should we care about preserving the natural cycle found in food webs? 	<ul style="list-style-type: none"> <input type="checkbox"/> Does not answer either question. 	<ul style="list-style-type: none"> <input type="checkbox"/> Attempts to answer one of the questions but the understanding is not clear. 	<ul style="list-style-type: none"> <input type="checkbox"/> Clearly shows that humans can impact food webs in a negative way, such as pollution, overfishing, or climate change. 	<ul style="list-style-type: none"> <input type="checkbox"/> In addition to showing that humans can impact food webs in a negative way, the story gives a clear example of how this can happen in nature.
<p>Effort</p>	<ul style="list-style-type: none"> <input type="checkbox"/> No effort is evident <input type="checkbox"/> Full of errors <input type="checkbox"/> Not professional looking 	<ul style="list-style-type: none"> <input type="checkbox"/> Some effort is shown. <input type="checkbox"/> Project includes more than 3-4 errors <input type="checkbox"/> Project is not professional in appearance 	<ul style="list-style-type: none"> <input type="checkbox"/> Effort is clear <input type="checkbox"/> Project is mostly free of errors <input type="checkbox"/> Project is attractive, neat, eye-catching 	<ul style="list-style-type: none"> <input type="checkbox"/> The story goes into great written detail as it answers the science questions <input type="checkbox"/> Illustrations/graphic design is extremely careful and detailed <input type="checkbox"/> Project is entirely free of spelling and other errors

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Commendations (what things were done really well?):

Recommendations (what could have been improved?):