

**Vermicomposting – Assessment Rubric**

Level	1	2	3	4
<b>Initiating and Planning</b>	Asks questions that demonstrate curiosity about the world around him or her.	Asks questions that could lead to investigations, and chooses one that will be the basis for an investigation related to a vermicompost.	Asks questions that could lead to investigations, and formulates a specific question that will be the basis for an investigation related to a vermicompost.	Asks questions that arise from practical problems and issues, and formulates a specific question that will be the basis for an investigation related to a vermicompost.
	With support, uses print and multimedia resources provided by the teacher for his/her research.	With support, selects print and multimedia resources from those provided by the teacher for his/her research.	Independently selects print, multimedia, and electronic resources from those provided by the teacher for his/her research.	Independently selects print, multimedia, and electronic resources for his/her research.
	With support from the teacher, makes a simple plan with few details to create a simplistic vermicompost.	Makes a simple plan (individually or in small groups), including simple drawings and/or diagrams, to create a vermicompost.	Outlines (individually or in small groups) the steps of a plan, including labelled drawings and/or diagrams, to create a vermicompost.	Outlines in detail, including technical drawings and/or diagrams, each step of a plan to create a vermicompost.
<b>Performing and Recording</b>	With support, designs, builds, and tests (on the basis of predetermined criteria) a vermicompost.	With support, designs, builds, and tests (on the basis of predetermined criteria) a vermicompost.	Designs, builds, and tests (on the basis of predetermined criteria) a vermicompost.	Designs, builds, and tests (on the basis of predetermined criteria) a vermicompost and makes adjustments or changes necessary based on his/her research.

	Records results using pictures and/or tally charts.	Records results in a variety of ways, such as sentences, simple drawings, diagrams, and/or charts.	Records results in a variety of ways, such as sentences, drawings, labelled diagrams, graphs, and/or charts.	Records results in a variety of ways, such as sentences, technical drawings, labelled diagrams, graphs, and/or charts.
<b>Analyzing and Interpreting</b>	With support, identifies the effectiveness of the vermicompost, using the predetermined criteria.	Identifies the effectiveness of the vermicompost, using the predetermined criteria.	Explains the effectiveness of the vermicompost, and suggests possible changes to the criteria and the solution.	Explains the effectiveness of the vermicompost using qualitative and/or quantitative data, and suggests possible changes to the criteria and the solution.
	With support, suggests something that might be changed about the vermicompost designed and created.	Identifies some things that could be done differently to improve the vermicompost designed and created.	Identifies and explains what changes could be made to the plan and how to improve the vermicompost, and gives reasons for the changes.	Identifies and explains what changes could be made to the plan and the testing process, and how to improve the vermicompost, and gives reasons for the changes.
<b>Communicating (Artifact)</b>	Describes orally, and/or using drawings, pictures, and/or simple sentences, the vermicompost and their results; using grade-appropriate science and technology vocabulary correctly.	Describes orally, and/or using drawings, pictures, and/or simple sentences, the process of designing and creating a vermicompost and their results; using grade-appropriate science and technology vocabulary correctly.	Describes orally, and using labelled drawings and diagrams, charts, graphs, and/or written descriptions, the process of designing and creating a vermicompost and their results; using grade-appropriate science and technology vocabulary correctly.	Describes orally, and using labelled drawings and diagrams, charts, graphs, and/or written descriptions, the process of designing and creating a vermicompost and their results; using grade-appropriate science and technology vocabulary correctly.