Structuring Competencies in a Definitive Budget of Work

Grade	FIVE			
Science Discipline/Component	CHEMISTRY - MATTER			
Grade Level Standard	At the end of Grade 5, learners and useful by investigating abinfer that new materials may for properties due to certain condition. Learners have developed health reproductive system after descrile. They can compare different modigroups and conduct an investigation aware of the importance of estual preservation. Learners can describe the move time travelled. Learners recognize with heat, light, and sound. They their specific uses. Learners can describe the changemake emergency plans with their can observe patterns in the natural the Moon.	fout some of the orm when there litions. Iful and hygienic poing changes that es of reproduction tion on pollination aries and intertidation on the that different man can relate these ges that earth man remains in prepare	eir properties are changes oractices related accompany on among plants. They have all zones and haterials react abilities of materials undergaration for type	ted to the puberty. In the and animal become help in their tance and adifferently aterials to go. They can hoons. They
	PROPERTIES OF MATTER. Af product labels, learners can critic harmful or not. They can also de knowledge of solids and liquids in	cally decide whetl scribe ways in wh	her these math	terials are use their

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Domain	CHANGES THAT MATTER UNDERGO. In Grade 4, learners investigated changes in materials that take place at certain conditions, such as applying force, mixing materials, and changing the temperature. In Grade 5, they investigate changes that take place under the following conditions: presence or lack of oxygen (in air), and applying heat. They learn that some of these conditions can result in a new product. Knowing these conditions enable them to apply the "5R method" (recycling, reducing, reusing, recovering and repairing) at home and in school.				
Performance Standard	The learner uses local, recyclab useful products	The learner uses local, recyclable solid and/or liquid materials in making useful products			
Content Standard	The learners demonstrate understanding of 1. properties of materials to determine whether they are useful or harmful; 2. materials undergo changes due to oxygen and heat				
Performance Task	 Prepare a slogan/poster to disseminate information in the usefulness of materials Recycling of waste materials into useful products Compose a song/poem/rap on the importance of proper waste management 				
CONTENT	LEARNING COMPETENCIES	CODE	NO. OF DAY/S TAUGHT	REMARKS	
1. Properties	1. Use the properties of materials whether they are useful or harmful	S5MT-la-b-1			
1.1 Useful and Harmful Materials	1.1 Classify materials found in the environment according to use in personal body care products, cleanning afents, medicines	S5MT-la-b-1.1	1		

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	1.2 Classify materials found in the environment according to use in farm chemicals and reagents food	S5MT-la-b-1.2	1	
	1.3 Identify useful materials at home, in school and in the community	S5MT-la-b-1.3	1	
	1.4 Identify harmful materials at home, in school and in the community	S5MT-la-b-1.4	1	
	1.5 Classify useful and harmful materials at home, in school and community	S5MT-la-b-1.5	1	
	1.6 Identify the properties of materials that determine their uses, harmful effects	S5MT-la-b-1.6	1	
	1.7 Explain how different materials become useful to the community	S5MT-la-b-1.7	1	
	1.8 Explain how different materials become harmful to the community	S5MT-la-b-1.8	1	
	1.9 Create a slogan to disseminate information in the use of useful and harmful materials	S5MT-la-b-1.9	2	
_	SUMMATIVE TEST	_	1	

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Changes that Materials Undergo	2. Investigate changes that take place under the following conditions:	S5MT-Ic-d-2		
	presence or lack of oxygen (in air) and in applying heat)			
	2.1 Describe physical and chemical change operationally	S5MT-Ic-d-2.1	1	
	2.2 Identify the characteristics of physical and chemical change	S5MT-lc-d-2.2	1	
	2.3 Differentiate physical change from chemical change	S5MT-lc-d-2.3	1	
	2.4 Investigate changes that happen in the presence of oxygen	S5MT-Ic-d-2.4	1	
	2.5 Investigate changes that happen in the absence of oxygen	S5MT-lc-d-2.5	1	
	2.6 Investigate changes that happen in the application of heat	S5MT-Ic-d-2.6	1	
	2.7 Identify evidences affecting chemical change:	S5MT-Ic-d-2.7	1	
	a. Presence of oxygen;b. Absence of oxygen;c. Application of heat.			

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2.8 Describe different changes brought by nature (e.g. global warming, pollution, etc.), humans and other living organisms (e.g. kaingin system, inceneration, etc.)	S5MT-Ic-d-2.8	2	
2.9 List/Enumerate practices in preventing changes that pose harm/ hazard in the environment and living organisms	S5MT-Ic-d-2.9	1	
SUMMATIVE TEST		1	
3. Recognize the importance of recycyle, reduce, reuse, recover and repair in waste materials	S5MT-le-g-3		
3.1 Identify the 5R's components of proper waste management	S5MT-le-g-3.1	1	
3.2 List the effects of improper wastes disposal	S5MT-le-g-3.2	1	
3.3 Describe ways on how to reduce waste materials	S5MT-le-g-3.3	1	
3.4 Identify ways on how to reuse waste materials	S5MT-le-g-3.4	1	
3.5 Describe ways on how to repair possible waste materials	S5MT-le-g-3.5	1	

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	3.6 Describe ways on on how materials can be recovered from possible waste materials	S5MT-le-g-3.6	1	
	3.7 Identify ways on how to recycle waste materials	S5MT-le-g-3.7	1	
	3.8 Describe the benefits of using 5R's of waste management on living and non-living things	S5MT-le-g-3.8	1	
	3.9 Prepare a campaign material on proper waste disposal in school or in the community (e.g. poster, slogan, etc.)	S5MT-le-g-3.9	1	
	SUMMATIVE TEST		1	
	4. Design a product out of local and recyclable materials in making useful products	S5MT-Ih-i-4		
	4.1 Recycling of old magazines/newspapers/yellowp aper/etc.	S5MT-Ih-i-4.1	1	
	4.2 Recycling plastic bottles/containers	S5MT-Ih-i-4.2	1	
	4.3 Recycling plastic straws	S5MT-Ih-i-4.3	2	
	4.4 Recycling discarded slippers/rubbers	S5MT-Ih-i-4.4	2	

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	4.5 Recycling other waste maste materials (e.g. candy/snack packages)	S5MT-Ih-i-4.5	2	
	4.6 Compose a song/poem/rap on the importance of proper waste disposal	S5MT-Ih-i-4.6	2	
	SUMMATIVE TEST		1	
TOTAL NUMBER OF DAYS			43	
PERIODICAL TEST			2	
OVERALL TOTAL NUMBER OF DAYS			45	