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GSM I: Earth Science Sample Syllabus (Flexible Learning)

This three-unit course deals with the fundamentals of Earth science and physical geology. Geologic processes such as rock formation, minerals and soil, weathering, erosion and mass movement, seismology, volcanism, and plate tectonics will be emphasised. Issues concerning the importance, exploration, use, and conservation of mineral resources will also be dealt with.

	Desired Learning Outcomes	Course Content	Outcomes-Based Teaching and Learning	Assessment of Learning Outcomes
				Itimodal Model for Online Educatio
	the end of this unit, the	Earth Materials	Video and picture analysis	Self-paced modules
students must be able to:		A. Minerals	on the major mineral	
1.	differentiate rocks	1. Major Mineral Groups	groups and mineral	Local mineral and rock
	from minerals based	2. Mineral Identification	identification	identification
	on set criteria;	B. Rock Cycle		authentic assessmen
2.	explain the properties	C. Igneous Rocks	Graphical analysis of the	Portfolio on the common
	of minerals and the	1. Igneous Textures	rock cycle	minerals and rocks in the
	different mineral	2. Naming Igneous Mult	timodal Model for Online Educa Interactive simulations of	tion Philippines and their
	groups;	Rocks	Interactive simulations of	industrial uses
3.	argue for or against	D. Sedimentary Rocks	the rock formation and	
	the practices of	1. Types of Sedimentary	transformation processes	Schematic diagram of the
	mineral ore mining in	Rocks		rock cycle
	the Philippines and its	2. Sedimentary Features	Poster on renewable and	
	impact on sustainable	E. Metamorphic Rocks	nonrenewable energy	Graphic organisers
	development;	1. Agents of	sources in the Philippines	drupine organisers
4.	demonstrate the rock	Metamorphism	sources in the r imppines	Debate papers and essays
1.	formation and	2. Textural and	Debate paper on the	Debate papers and essays
	transformation	Mineralogical	importance and practices	Research papers
	processes through	Changes	of mineral ore mining in	• •
	multimedia and	3. Common	the Philippines and its	Online Learning Model
	traditional			Online or printed
		Metamorphic Rocks	impact on sustainable	assessments
	instructional		development	
_	materials; and			Online group discussions
5.	identify rock samples		Independent reading tasks	Online Collaborative Learnin
	based on the three		(module-based online and	
	basic rock groups.		printed resources)	
			Interactive online	
			discussions (synchronous	
			and asynchronous)	
			Online Collab	orative Learning
			through Google Classroom and Meet	

through Google Classroom and Meet

*Data privacy protocols and remote learning etiquette are laid out at the start of class, through a post in Google Classroom.