Window Rock Unified School District #8 CURRICULUM GUIDE

Physical Sciences: Students apply stability and change to explore chemical properties of matter and chemical reactions to further understand energy and matter

Standard	Kid Friendly Learning Objectives	Content (subject or topic covered in Journeys/My Perspectives)	DOK Level	(ability practice antitude that y	vill be Assessmer	nt	Academic Vocabulary
8.P1U1.1 (2wks) Develop and use a model to demonstrate that atoms and molecules can be combined or rearranged in chemical reactions to form new compounds with the total number of each type of atom conserved.	I can develop and use a model to demonstrate that atoms and molecules can be combined or rearranged in chemical reactions to form new compounds with the total number of each type of atom conserved.	Physical Science Discovering Parts of an Atom Chapter 9 Lesson 1 157-174 Classifying Matter Chapter7 Lesson 1 P.113-118 Physical Properties Chapter 7 Lesson 2 P. 120-125	4	 apply explain analyze predict differentiate 	Developing and using models • Develop models to describe unobservable mechanisms. • Use and develop models of simple systems with uncertain and less predictable factors. • Evaluate limitations of a model for a proposed object or tool.	elencher	stances
8.P1U1.2 (2wks) Obtain and evaluate information regarding how scientists identify substances based on unique physical and chemical properties.	I can obtain and evaluate information regarding how scientists identify substances based on unique physical and chemical properties	Physical Science Using the Periodic Table Chapter 10 Lesson P. 175-190 Physical Changes Chapter7 Lesson 3 P. 126-130	4	analyzeexplainconcludediscusscompare and contrast	Obtain and evaluate information • Communicate scientific information and/or technical information (e.g.	elencher	stances

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8.P4U1.4 (2wks) Develop and use mathematical models to explain wave characteristics and interactions.	I can develop and use mathematical models to explain wave characteristics and interactions.	Chemical Properties and Changes Chapter 7 Lesson 4 P. 131-136 Electrons and Energy Levels Chapter 11 Lesson 1 P. 191-197 Physical Science What are waves? Chapter 15 Lesson 1 P. 267-272 Wave Properties Chapter 15 Lesson 2 P. 273-278	DOK 2- 4	• expla • descr • const • predi • asses	ribe truct ict	objectory objects objects object of the state of the stat	dels se and/or elop models to dict, describe,	wave frequ ampl	•

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8.P4U1.3 (1wk) Construct an explanation on how energy can be transferred from one energy store to another.	I can construct an explanation on how energy can be transferred from one energy store to another.	Physical Science Electric Charge and Electric Forces P.347-355	4	• com • anal • appl • cons	lyze	Con exp • Co exp eith or o rela bety (pha cha mot exp kno exp phe exa	struct an lanation onstruct lanations for er qualitative luantitative tionships ween variables ase/state nges, molecular cion) oply scientific wledge to lain real-world nomena, mples, or	condbattoelect	on mal insulators fluctors ery cric current sferring energy hit
						radi dige	nts (fire, ation, estion, factories power plants,		

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8.P1U2.5 (2wks) Develop a solution to increase efficiency when	solution to increase efficiency when transferring energy from one source to another.	Physical Science Forms of Energy Chapter 5 Lesson 1 P. 75-81 Energy Transformation Chapter 5 Lesson 2 P. 82-88 Energy Resources Chapter Lesson 3 P. 88-96	4	 design compare and contrast explain infer examine summarize 	Undertake design	 energy exchanges atoms molecules dissipated