GRADE	TOPICS			
	S.3-5.ES.1		Level 3- Ch. 8.1, 8.2, 8.3 Level 5- Ch. 8.1, 8.3	Level 3- Measuring Pressure SE 241/S Comparing Results TE 241/SJ 26, TT 2 Temperature Changes SE 249/SJ 28; C Weather Factors TE 249/SJ 30, EAL 25 Measuring Wind Direction TE 253/SJ 32 Level 5- Observing Air Pressure SE 243 Pressure in Other Locations TE 243/SJ Cloud Cover and Weather SE 262/SJ 1 Fronts and the Weather TE 262/SJ 18; I

	S.3-5.ES.4	Level 3- Ch. 7.1 Level 4- Ch. 7.1	Level 3-- TT 212, ATBD Level 4-- TT 220, LA 225, ATBD
	S.3-5.ES.5	Level 3- Ch. 7.1, Ch. 8.2 Level 4- Ch. 7.1, 7.3	

3-5	Earth and Human Activity	S.3-5.ES.7	Make a claim about the merit of a design solution that reduces the im w4 27suTJ ET - 6ts of a	Level 3- Ch. 8.2 Level 5- Ch. 8.3	Level 3-- ATBD Level 5-- ATBD
		S.3-5.ES.8	Obtain and combine information to describe that energy and fuels are natural resources (e.g., wind energy, water behind dams, sunlight, fos fissile materials) and their uses affect the environment (e.g., loss of h dams, surface mining, air pollution). (4-ESS3-1)	Level 3- Ch. 3.4, 3.5 Level 4- Ch. 3.4, Ch. 8.1, 8.3 Level 5- Ch. 10.3, 10.4	Level 3-- Water Monitor TE 107/SJ 54; Connecting to Resources SE 113/SJ 56 Inside TE 113/SJ 58; Pollution in the Air 117/SJ 60, EAL 119, EAL 120 Level 4-- The Game of Life SE 109/SJ 5 Locally Threatened Species TE 109/SJ 112 Level 5-- Modeling Global Warming with Terrarium SJ 91; ATBD
		S.3-5.ES.9	Generate and compare multiple solutions (e.g,. Earthquake resistant monitoring volcanic activity) to reduce the impacts of natural Earth pr humans. (4-ESS3-2)	Level 4- Ch. 7.2, 7.3	Level 4-- Stand Up to Earthquakes SE 2 4; A Strong Up to Earthquakes TE 228/ Mudflow in a Jar TE 245/SJ 20
		S.3-5.ES.10	Obtain and combine information about ways individual communities u ideas to protect the Earth's resources and environment. (5-ESS3-1)	Level 3- Ch. 3.5 Level 4- Ch. 8.3 Level 5- Ch. 10.2, 10.3, 10.4	Level 3-- TT 112; Connecting to Resour 113; Pollution in the Air TE 117/SJ 60, E EAL 120 Level 4-- TT 280; Cookie Mining SE 280 42; Restoring the Land TE 280/SJ 44, E Level 5-- From Land to Ocean SE 332/S Pollutants in Water TE 332/SJ 70; Runo Pollution TE 334/SJ 72; Water Undergr 337/SJ 76; Polluting Aquifers TE 337/S EAL 341; Native vs Non-native SE 344/ Green Gardening TE 344/SJ 82, LA 346

	S.3-5.ES.11	Identify evidence from patterns in rock formations and fossils in rock l support an explanation for changes in a landscape over time. (4-ESS	Level 4- Ch.7.1, 7.2, 7.4, Ch. 8.2	Level 4- TT 262; Changing a Rock SE 2 3.2; TT 272; Fossil Layers SE 273/SJ 38 Fossil Dig TE 273/SJ 40, EAL 275
	S.3-5.ES.12	Make observations at different times of year to relate the amount of d time of year. (1-ESS1-2)	Level 4- Ch. 9.4	Level 4- ATBD
	S.3-5.ES.13	Represent data in graphical displays to reveal patterns of daily chang and direct(m)3-2ect(m)3-26( )4( )4( )4(97.78 341.47 276.05 118.5	Level 3- Ch. 8.3, Ch. 9.2, 9.3 Level 4- Ch. 9.2 Level 5- Ch. 8.4	Level 3- EAL 265; TT 280; The Growing Shrinking Shadow SE 281/SJ 44; Shiftin Shadows TE 281/SJ 46, EAL 283; Seas Earth TE 284/SJ 48; Now I See It, Now SE 289/SJ 50, A Lunar Eclipse TE 289/ Level 4- Make a Sundial TE 295/SJ 52; Map SJ 64 Level 5- ATBD

Essential Question- How has God equipped humans to appl knowledge of science to solve problems for the benefit of H Creation?	Big Idea- God designed humans to wonder, questio develop an attitude of inquiry as scientific principle applied to the materials and forces of nature for the of His Creation.	

	S.3-5.ET.1			
	S.3-5.ET.2	Generate and compare multiple possible solutions to a problem base each is likely to meet the criteria and constraints of the problem (3-5-E		Level 3- ATBD Level 4- ATBD Level 5- ATBD
	S.3-5.ET.3			

S.3-5.HS.1	Level 3- Ch. 4.1, 4.2, Ch. 5.3 Ch. 6.2, 6.3 Level 4- Ch. 4.2, 4.3, Ch. 5.3 Level 5- Ch. 7.1, 7.2, 7.3	Level 3- How Can Food Help Me Stay Healt 127/SJ 2; Staying Healthy TE 127/SJ 6, TT 1 Testing Sunscreens SE 131/SJ 8; UV Filterir 131/SJ 10; Hand Washing and Drying TE 13 LA 135, TT 140; Bacteria Gardens SE 141/S Cleaning the Gardens TE 141/SJ 18, LA 144 Stronger TE 162/SJ 30, TT 172; Keep Your Healthy SE 173/SJ 36, EAL 175; Measuring SE 192/SJ 46; Cool Down TE 192/SJ 48; Ae Heart TE 193/SJ 50, LA 202; ABTD Level 4- Balanced Diet SE 137/SJ 4; Greasy TE 137/SJ 14, LA 139; Exercise Journal SE 16, LA 142, L 143; ATBD Level 5- How Can I Make Healthy Food Cho 159/SJ 1; Spreading Disease SE 205/SJ 51,

S.3-5.LS.1	Level 3- Ch. 1.3, Ch. 2.1, 2.2 Level 4- Ch. 1.4 Level 5- Ch. 1.3, Ch. 5.1, 5.2, Ch. 6.1, 6.2	Level 3- ATBD Level 4- ATBD Level 5- ATBD	Q 944	
S.3-5.LS.2	Level 3- Ch. 2.1, Ch. 5.1, Ch. Level 4- Ch. 1.1, 1.3, 1.4, Ch. 2.2 Level 5- Ch. 3.1, 3.2, 3.3, 3.4 4.3, Ch. 5.2, 5.3, Ch. 6.1, 6.2	Level 3- ATBD Level 4- ATBD Level 5- ATBD		
S.3-5.LS.3	Level 4- Ch. 4.1, Ch. 5.2	Level 4- ATBD		
S.3-5.LS.4	Level 3- Ch., 2.1, Ch. 2.3 Level 4- Ch. 1.1	Level 3- ATBD Level 4- ATBD		
S.3-5.LS.5	Level 4- Ch. 2.2, Ch. 3.2 Level 5- Ch. 3.3, Ch. 4.1, 4.3	Level 4- ATBD Level 5- ATBD	Q	
S.3-5.LS.6	Level 3- Ch. 3.1 Level 4- Ch. 3.1, 3.2, 3.3, 3.4 Level 5- Ch. 4.1, 4.2, 4.3	Level 3- ATBD Level 4- ATBD Level 5- ATBD		
S.3-5.LS.7	Level 3- Ch. 1.1, 1.3, Ch. 2.2			

	S.3-5.LS.9		
		Level 4- Ch. 8.2	Level 4- ATBD
	S.3-5.LS.10		
		Level 4- Ch. 2.1, 2.2 Level 5- Ch. 3.1, 3.2, 3.3	Level 4- ATBD

3-5	Energy	S.3-5.PS.10	Use evidence to construct an explanation relating the speed of an obj energy of that object. (4-PS3-1)	Level 3- Ch. 10.1, 10.3, Ch. 1 11.2 Level 4- Ch. 10.2 Level 5- Ch. 13.2, 13.3	Level 3-- Models of Particles in a Liquid, Solid and a Gas SE 305/SJ 8; Vibrating SE 321/SJ 16; Vibrating Strings TE 321 EAL 331, EAL 333; Racing Speed SE 3 28, EAL 342, EAL 348, EAL 358 Level 4-- ATBD Level 5-- Comparing Motion SE 435/SJ Motion and Mass TE 435/SJ 60; Force, and Acceleration SE 441/SJ 62; Increas Mass TE 441/SJ 64, EAL 448
		S.3-5.PS.11	Make observations to provide evidence that energy can be transferre place by sound, light, heat, and electric currents. (4-PS3-2)	Level 3- Ch. 10.2, 10.3, 10.4 Level 4- Ch. 11.2 Level 5- Ch. 11.2, 11.3, Ch. 1 12.3	Level 3-- Transfer of Thermal Energy SE 313/SJ 12; Bring on the Heat TE 313/SJ EAL 316, EAL 318; Vibrating Confetti SI 321/SJ 16; Vibrating Strings TE 321/SJ 322; How Waves Move SE 329/SJ 20 Level 4-- Melting and Boiling SE 339/SJ 376; ATBD Level 5-- Sand Shaker SE 366/SJ 12, EA 369; Light Bulb Energy SE 370/SJ 16; L Lighting TE 370/SJ 18, EAL 372, EAL 3 Changes in Pitch and Loudness SE 376 Rubber Band Thickness and Pitch TE 3 22; Build a Wave Machine SE 390/SJ 3 Waves TE 390/SJ 34, EAL 397
		S.3-5.PS.12	Ask questions and predict outcomes about the changes in energy tha objects collide. (4-PS3-3)	Level 3- Ch. 11.2 Level 5- Ch. 13.2, 13.3	Level 3-- EAL 358 Level 5-- EAL 434, EAL 446; ATBD
		S.3-5.PS.13	Apply scientific principles to design, test, and refine a device (e.g., ele solar heater) that converts energy from one form to another. PS3-4)	Level 3- Ch. 10.2, 10.3 Level 4- Ch. 11.2, 11.3 Level 5- Ch. 14.2, 14.3	Level 3-- Solar Cooker SJ 44 Level 4-- Make an Electromagnet SE 38 44; Building an Electric Motor SJ 50 Level 5-- Simple to Complex SE 473/SJ Design a Machine TE 473/SJ 90, EAL 4 100