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| Grade | DoDEA Science Standards | EiE Unit Title“Unit storybook” and details |
| 1 | 1Sa – Scientific Inquiry1Sd – Earth MaterialsScience topic: Earth Materials | A Sticky Situation: Designing Walls“Yi Min’s Great Wall”Materials Engineering, Location: China |
| 1 | 1Sa – Scientific Inquiry1Sd – Earth MaterialsScience topic: balances and forces | To Get to the Other Side: Designing Bridges“Javier Builds a Bridge”Civil Engineering, Location: USA - Latino |
| 2 | 2Sa – Scientific Inquiry2Sb – AnimalsScience topic: Insects/plants | The Best of Bugs: Designing Hand Pollinators“Mariana Becomes a Butterfly”Agricultural Engineering, Location: Dominican Republic |
| 2 | 2Sa – Scientific Inquiry2Sd – Properties & Changes in MatterScience topic: Solids & Liquids | A Work in Process: Improving a Play Dough Process“Michelle’s MVP Award”Chemical Engineering, Location: Canada |
| 2 | 2Sa – Scientific Inquiry2Sc – WeatherScience topic: Air & Weather | Catching the Wind: Designing Windmills“Leif Catches the Wind”Mechanical Engineering, Location: Denmark |
| 3 | 3Sa – Scientific Inquiry3Se – Motion & SoundScience topic: Sound | Sounds Like Fun: Seeing Animal Sounds“Kwame’s Sound”Acoustical/Communication Engineering, Location: Ghana |
| 3 | 3Sa – Scientific Inquiry3Sd – Heat & Changes in MatterScience topic: Energy | Now You’re Cooking: designing Solar Ovens“Lerato Cooks Up a Plan”Green Engineering, Location: Botswana |
| 3 | 3Sa – Scientific Inquiry3Sc – Earth’s Materials & ChangesScience topic: Rocks & Minerals | Solid as a Rock: Replicating an Artifact“Galya and Natasha’s Rocky Adventure”Materials Engineering, Location: Russia |
| 3 | 3Sa – Scientific Inquiry3Sc – Earth’s Materials & ChangesScience topic: Landforms | A Stick in the Mud: Evaluating a Landscape“Suman and the Karnali River”Geotechnical Engineering, Location: Nepal |
| 4 | 4Sa – Scientific Inquiry4Sb – Organisms and Their EnvironmentsScience topic: Plants | Thinking Inside the Box: Designing a Plant Package“A Gift From Fadil”Package Engineering, Location: Jordon |
| 4 | 4Sa – Scientific Inquiry4Se – Properties of Light and ElectricityScience topic: Light | Lighten Up: Designing Lighting Systems“Omar’s Time to Shine”Optical Engineering, Location: Egypt |
| 4 | 4Sa – Scientific Inquiry4Sc – AstronomyScience topic: Astronomy | A Long Way Down: Designing Parachutes“Paulo’s Parachute Mission”Aerospace Engineering, Location: Brazil |
| 4 | 4Sa – Scientific Inquiry4SE – Properties of Light and ElectricityScience topic: Electric Circuits  | An Alarming Idea: Designing Alarm Circuits“A Reminder for Emily”Electrical Engineering, Location: Australia |
| 5 | 5Sa – Scientific Inquiry5Sb – Ecosystems: Terrestrial and Aquatic5Sc – Landforms and Oceans5Sd – Properties of MatterScience topic: Water | Water, Water Everywhere: Designing Water Filters“Saving Salila’s Turtle”Environmental Engineering, Location: India |
| 5 | 5Sa – Scientific Inquiry5Sc – Landforms and Oceans5Sd – Properties of MatterScience topic: Sinking & Floating | Taking the Plunge: Designing Submersibles“Despina Makes a Splash”Ocean Engineering, Location: Greece |
| 5 | 5Sa – Scientific Inquiry5Se – Forces & MotionScience topic: Magnetism | The Attraction is Obvious: Designing Maglev SystemsHikaru’s Toy Troubles”Transportation Engineering, Location: Japan |
| 5 | 5Sa – Scientific Inquiry5Sb – Ecosystems: Terrestrial and Aquatic5Sc – Landforms and Oceans5Sd – Properties of MatterScience topic: Ecosystems and Pollution | A Slick Solution: Cleaning an Oil Spill“Tehya’s Pollution Solution”Environmental Engineering, Location: Washington State |
| 3, 4, 5 | Sa – Scientific Inquiry3Sb – Habitats and Adaptations4Sb – Organisms and Their Environments5Sb – Ecosystems: Terrestrial and AquaticScience topic: Environments, Animals, Adaptations, Habitats, Ecosystems | Just Passing Through: Designing Model Membranes“Juan Daniel’s Fútbal Frog”Bioengineering, Location: El Salvador  |
| GE orother | Sa – Scientific InquirySe – Forces & MotionScience topic: Simple Machines | Marvelous Machines: Making Work Easier“Aisha Makes Work Easier”Industrial Engineering, Location: USA – African American |
| GE orother | Sa – Scientific InquiryScience topic: Human Body | No Bones About It: Designing Knee Braces“Erik’s Unexpected Twist”Biomedical Engineering, Location: Germany |