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