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| **1. Underwater Adventure:** *Learn fun, fascinating facts about Hawaiian marine life, ocean ecology, and the science behind exploring the underwater world while scuba diving.* **Rebekah Mersburgh & Alii**, Scuba Instructors, **Jack’s Diving Locker**.  **2. All About Anchialine Pools:** *Learn about the incredible ecosystem of anchialine pools and the shrimp that live in them.* **Dena Sedar,** Interpretive Specialist, **Hawaii State Parks**  **3. Marine Science & Problem Solving Along Our Shores:** *Marine biologists work to save Hawaiʻis precious coastal ecosystems. Students will get an up close (and fishy) look at the threats to these ecosystems and how to protect them.***Stacey Breining, Kallie Barnes, & Brianna Craig,**Education and Outreach**, Hawaiʻi Wildife Fund.**  **4. Whale Sharks: Spotting Patterns Through Spots:** *Learn about whale sharks, in general, and how we use math/computers to help identify whale sharks.* **Stacia Marcoux**, Chief Research Scientist, **Hawaii Uncharted Research Collective**  **5. Robots: The Science of Robotics is All Around Us:** *Spend time with high school Robotics Team Members and Learn about robotic competition and how robotics helps us and our world.* **Kealakehe High School Award Winning Robotics Team (Justin Brown, sponsor)**  **6. A “WHEA” (way of) Life:** *Learn from WHEA high school students about projects from A to Z and go from the mountain to the sea. Check out some cool tidepool organisms, deep sea creatures, and a 3D printer, just to name a few.* **West Hawaii Explorations Academy High School students (Liana White, sponsor)**  **7. Light and Reflection:** *Learn about reflection of light and how telescope mirrors work. Build a simple hat with a mirror to see behind you.* **Melissa Trubey,** Mechanical Engineer, **Thirty Meter Telescope (TMT)**  **8. Bridge Engineering:** *Learn about the forces of nature and how engineers design the structures we use every day. Then be an engineer by building and testing a model bridge.* **Lori Kindervater,** Structural Engineer, and mentee **Tasman Burau**, **Turner Structural Engineering.**  **9. Energy! What’s The Buzz All About?** *Our homes, our cars, and our bodies all use energy. Learn about the sources and uses of energy and use human energy to power an appliance to make a treat!* **Ingrid Hillhouse**, Senior Petroleum Engineer, **Fieldwood Energy**, retired  **10. Turn Your Phone Into A 3D Hologram Projector:**  *Learn how to display holograms using your phone.* **Angelic Ebbers,** Gemini Engineer, **Gemini Observatory**  **11. Body Shop:** *Learn how the body works as a “machine” and become a chiropractic “mechanic” to fix it.* **Dr. Lisa DiNatale**, Chiropractor & **Joe Zapataoliva,** **TLC Chiropractic**  **12. Slime Time:** *Make your own special effects slime like in the movie “Ghostbusters” or on Nickelodeon. Take it home and surprise your family and friends.* **Sue Roberts,** Chemist, **Pacific Environmental Laboratory** (retired)  **13. Dig into the Past:** *Discover how we learn about our ancestors by finding what they left behind. Dig, screen, and sort artifacts, and analyze the data to find out how people lived in the past.* **Mary Anne Maigret**, Archaeologist, **National Park Service**  **14. What’s That Spot on Your Birthday Suit?** *Learn about the common spots on your skin; how to protect your skin; and simple procedures skin doctors perform.* **Marne CarMichael Walsh**, PA, **Mahealani Walsh, & Rachel Dowsett, Dr, Monica Scheel Dermatology**  **15. Skintelligence: The Art and Science of Dermatology:** *Be a mini-dermatologist and learn about different forms of skin cancer; the importance of sunscreen; and how dermatologists remove suspicious spots.* **Dr. Parwathi (Uma) Paniker,** MD Dermatology, **Kaiser Permanente**  **16. Discovering the Isle of GEMS:** *Use the basics of land surveying to make a 3-D model of your own tropical island.* **Chrys Yamasaki,** Surveyor, **& Kimberly Yamasaki,** **Wes Thomas and Associates**  **17. Creative Computer Programming:** *Transform yourself into a “Program Master” and create a “NanoGEMS” nametag to take home.* **Liz Chock** and **Myrna Tsubota,** Software Engineers, **W, M. Keck Observatory**  **18. How Rainbows Solve Mysteries:** *Discover how light and rainbows help astronomers understand and explore the mysteries of the universe.* **Nadine Manset,** Resident Astronomer, & **Mary Beth Laychak,** Outreach Manager, **Canada-France-Hawaii Telescope**  **19. The Art and Science of Food:** *Discover the delicious connections among nutrition, math, cooking, and science.* **Patti Kimball & Simone White**, Chefs, **American Culinary Federation**  **20. Animal Doctors:** *Veterinarians and veterinary assistants work with everything from alligators to zebras. Explore the exciting world of working with animals.* **Jolene Head** Educational Coordinator, & **Evan Connelly**, **Keauhou Veterinary Hospital**  **21. The Doctor Will See You Now:** *Be a veterinarian and learn the steps we take to help pets feel better and keep them healthy.* **Dr. Deborah Fine,** Veterinary Cardiologist, **Ali’i Veterinary Hospital**  **22. Zumba Breaks the Mold: Health and Fitness is For Everyone:** *Learn about the Health and Fitness Industry and how Zumba has changed the way we look at Fitness.* **Katie Moore**, Fitness Professional, **Zumba Instructor** |
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