SESSION DESCRIPTIONS:

Augmented Reality (AUG REAL)
What is your Aura? Augmented Reality takes your physical world and overlays it with a sound, graphics, or video. This session is designed to create auras-overlaying digital files- to be published and managed through the online platform, Aurasma Studio. Auras can then be seen through the Aurasma smartphone application. **Smartphones optional. *Presented by: Maui High School ACOM*

After Effects - Beginners (AFTER EFF)
This Session will provide a detailed introduction to the industry standard for motion graphics – Adobe After Effects. In this workshop, we will be focusing on motion graphics and creating animations within After Effects. No footage will be required as we are diving into the visual effects aspect of After Effects, but if there is time, we can start the basics of VFX. *Presented by: Austin Ambliguyuen, Maui High School ACOM*

Body Lingo Bingo: What your body language is telling others (BINGO)
One of the most pervasive forms of communication is not the spoken word, but our body language. Body Lingo Bingo will explore non-verbal communication including body posture, gestures, eye contact and facial expressions. Learn how to walk into a room with confidence and read other people's body language. This extremely interactive workshop will give you more confidence and teach you how to read other people's body language. Ever wonder what it means when someone scratches their nose? *Presented by: Alexis Dascoulias, OnStage Maui*

Coding via Interactive Web Application (APP)
Learn basic HTML/CSS/JavaScript through different web applications. Learn about interactive web applications where two people can interact with each other in a single application on separate browsers. You can create your own interactive game and see real time updates .
Presented by: Jason Sewell, DevLeague LLC

Common items, Uncommon results! (COM)
Join us for Hardware Science and learn how ordinary items from a hardware store come together in extraordinary ways! You will build the world's simplest electric motor, make your own air canon, explore chemical reactions and leave with a few tricks up your sleeve! Wow your friends, impress your teachers and do science like a BOSS!
Presented by: Carrera Catugal and Tammy Gomes, HouseMart/Ben Franklin Crafts

Custom Web Mapping (WEB)
Creating custom web mapping application using ArcGIS API for JavaScript. This session will teach students how to:
       Create a Simple HTML Document
       Reference the ArcGIS API for JavaScript
       Load Modules
       Create a map
       Define Page Content and
       Style the Page.
Presented by: Sylvie Cares, UH Hilo – SDAV

Cybersecurity (CYBER)
Have you heard of The Interview? Ethical Hacking? Do viruses, DDoS attacks, or buffer overflows tickle your fancy? If so, you might consider becoming a legal hacker, aka an ethical hacker, "white hat" hacker, or penetration tester. This workshop will explain what ethical hacking is all about, why it is completely legal and in high demand by businesses and government organizations. Various hands-on exercises will demonstrate the tips and tricks of ethical hacking, something you can do at home! Finally, the workshop will differentiate between ethical hacking and illegal, "black hat" hacking which will (eventually) land you in jail! Come and learn about this emerging and important career profession.
Presented by: Debasis Bhattacharya, UH Maui College

Engineering is COOL! (ENG)
Learn about Maui Electric and the work they do. This hands on session will teach you about circuitry, sketching and you will learn how to build your very own MP3 switchboard.
Presented by: Maui Electric

Entrepreneur Workshop: Startup MadLibs--Why no one will steal your stupid idea (ENT)
If you have an idea for a startup that could use some refinement, then join us for the Startup MadLibs Bootcamp. In just one hour, this intensive workshop will help you improve your idea, come up with new ideas and even recruit potential co-founders. What are the components of a great idea? How do you know if you are working in an attractive market? How do you validate that your idea is great?
Presented by: Russel Cheng, DevLeague LLC

Hour of Code (CODE)
On completion of the Hour of Code you will be able to demonstrate the basics of software programming to others by getting them to use your beautiful fun game! As an attendee of the Hour Of Code you will build a game that uses "if", "for" as well as interactive touch. Upon completion your friends will be able to interact with your game on their phones!
Presented by: Sam Stokes, Microsoft

iPad Game Development (iPad)
Students will learn the basics of game development with Javascript, and gain an understanding of variable, functions, objects, and events in order to write, edit, and debug a simple iPad Game. No prior programming experience required. If students wish to use their own game graphics or sounds in the game, they can prepare these assets in advance. *Presented by: Jon & Kelli Borgonia, Goma Games*

Is That Really What You Said? (SAID)
Effective communication, listening and speaking. Have you ever arrived at the end of your day to discover that something you said before your first class has been completely turned around? This workshop will guide you through steps to help you become a more effective communicator by developing your speaking AND listening skills. Practice the important act of mirroring and reflecting when listening and how to check in with someone if you are doing all the talking.
Presented by: Alexis Dascoulias, OnStage Maui

Integrated Creativity (IC)
Being innovative is what Waianae High School Searider Productions is all about. With over 350 students and 3 majors covering journalism, film production, animation, and graphic design, teachers have found ways to integrate the different types of media to create a more efficient and efficient work environment. In this session, you will see how creativity is integrated into the yearbook, the Web, video production, social media, blogging, and print.
Presented by: UH STEM Pre Academy/Hawaii Creative Media

Integrating Science and Technology to enhance our conservation efforts (TNC)
If you love the outdoors and care about our native forest, this session is for you. Learn about the different methods and technologies The Nature Conservancy uses to control invasive species and other environmental threats to our native ecosystems and watersheds. This session will also cover the many opportunities The Nature Conservancy has for you.
Presented by: Francis Quitazol, The Nature Conservancy

Island Energy Inquiry: How Long Is My Shadow? (IEI)
Students use a very personal measurement to predict what part of the sun's energy is warming Hawaii around us, right now!
Presented by: Graham DeVey, MEDB

Kahua A`o – A Learning Foundation: Using Hawaiian Language Newspaper Articles for place and culture-based Earth Science Lessons. (KAHUA)
This session describes how familiar place-based experiences--swimming, surfing, any outdoor activity--connect to standards-based STEM lessons. We use Hawaiian language newspapers and ArcGIS to explore and map Hawaii's storms, drought, rains, winds, waves and Hawaii's gift to the world, surfing. We suggest ways to incorporate mo'olelo and mapping into meaningful place-based inquiry projects.
Presented by: Kelly Lance, Pauline Chinn & Alyson "Napua" Barrows, UH Manoa

Lightning in a Bottle (LIGHT)
Get your creative juices flowing! In this workshop, the Hawaii Creative Media team will talk about one of the many processes that he uses to inspire ideas. Come prepared to join in on this hands-on, practical activity that you will be able to immediately take back and use in your own classroom
Presented by: UH STEM Pre Academy/Hawaii Creative Media

Mapping Made Easy GIS/GPS (GIS)
Build your own customized map. Our database contains a comprehensive collection of items (layers) that can be customized, printed, saved, and even emailed and shared with your colleagues. Using publicly available data, we'll walk you through mapping out your own backyard or creating a special school project using ArcGIS Explorer online. *Presented by: Chris Nishioka, Mark Kimura & Nick Turner, UH Hilo – SDAV Lab*

Marketing Your Film via Social Media (MARK)
This session you will learn tips and best practices on how to use social media to its full potential to get your film noticed and pick up by film companies.
Presented by: Relativity School

My Maps (MAPS)
Ready to be engaged with a new, fun, and collaborative way to use maps? Google My Maps is a place for students to create and publish maps with their own content and stories. In this session, you'll see how other educators use My Maps in the classroom and learn to use the tools that will allow you to import data from Google Drive and create multimedia placemarks.
Presented by: Marybeth Baldwin, Janus Group

My Minecraft (MINE)
My Minecraft is an engaging and educational workshop that explores coding concepts in one of the world's most popular gaming platforms. During the workshop, we introduce JavaScript to enable students to design their own game elements within a game. Through writing programs in JavaScript, the language of the web, students will be able to create new components to Minecraft. This all day workshop will introduce the core concepts of coding and will allow them to get a glimpse of what it takes to program their own game. Instead of playing games on Minecraft, why not make one. Parents and Teachers are invited to come in at 4 pm to see what the students produce.
Presented by: Charles Nguyen, DevLeague LLC

Photography (PHOTO)
Take your photographic skills beyond camera phones! In this hands-on workshop, you will be introduced to essential concepts and photographic techniques necessary to fully harness the power of digital SLR or mirrorless cameras. We will cover camera functions such as aperture, depth of field, shutter speed, sensor, light, and file formats. Learn proven photographic techniques for common situations such as pets, sports, portraits and selfies.
Presented by: Mark Kimura, UH Hilo - SDAV

Photoshop - Beginners (PS-B)
This session will provide an exciting introduction to the design industry standard -- Adobe Photoshop. Topics to be covered: combining elements, layer styles, brushes, text tool, mask tools. Plus many more tips and tricks. Students who want to get started in graphic design and Web design are encouraged to sign up.
Presented by: Maui High Digital Media Team

Photoshop - Intermediate/Advanced (PS-A)
Want to push your Photoshop skills to the next level but wondering how to do it? This intermediate session will build and expand upon a basic foundation in Photoshop technique. Previous Photoshop knowledge is highly recommended.
Presented by: Eva Richmond and Aitana Shough, King Kekaulike High School

Real World Math (MATH)
This hands on session is for you MATH lovers. Learn how to make math fun with animations and sounds. Incorporate "real world" situations to make the math "real" and understandable rather than "abstract". At the end of the session you will create your own interactive Jeopardy game.
Cindy Tanaka, Waiakea Intermediate School

Remote Sensing from Above GIS/GPS (UAV)
Have you ever taken a picture from an airplane? Or played with Google Earth? Satellites, aircraft and even UAV (Unmanned Aerial Vehicles) use Remote Sensing technology allow us to see invisible parts of the electromagnetic spectrum and study the earth remotely. Cameras that capture bands of light such as the infrared, thermal and ultraviolet provide us with images we can use to extract information to answer questions about the world around us. Join us and explore the different technologies used in Remote Sensing. *Presented by: EPSCoR/SDAV Team*

Risk Taking: When is it the right choice to out on a limb? (RISK)
Risk taking can create great, positive and wonderfully unforeseen outcomes. It can also lead to disaster. Unlike negative risks, which are usually impulsive and driven by emotions, positive risks are calculated and to bring us incredibly positive results. This workshop will help you identify how to take positive risks and how to strategic plan so that you can think through and anticipate all that could happen before you jump!
Presented by: Alexis Dascoulias, OnStage Maui

Rubber Band Powered Cars - Exploring STEM and the Engineering Design Process (CARS)
Students will apply the engineering design process through a hands-on STEM activity as they become an automotive engineer for the day. Students will design, create, and optimize their own rubber band powered car and race against the other engineers in the Elemental Minds Grand Prix!
Presented by: Charles Souza & Ryan Saito, Elemental Minds

Stream Recruitment in `Iao Stream (IAO)
Wonder why `Iao Valley Stream is so important? This session will talk about the history of Iao Stream and the return of water since October2014. Learn about stream animals and their life cycle known as amphidromy. We will follow the journey of larvae that hatch in streams which sometimes carries them to the ocean and their return migration upstream. Take a journey through our streams and learn about native species (`o`opu, opae, Tahitian prawn and opae oe ha`a and hihiwai) and the important role flowing streams keep stream populations healthy and abundant.
Presented by: Skippy Hau, Division of Aquatic Resources, Department of Land & Natural Resources

True Colors: What Makes You Successful (TC)
Identify your true colors and personality traits by recognizing your values, motivations, strengths and stressors. Then use this knowledge as a tool to build better understanding and rapport with diverse groups. Understand better ways to communicate your ideas and relate to others. This is a true team building workshop.
Presented by: Alexis Dascoulias, OnStage Maui

STEMworks College Tool Kit (TOOL)
It is never to early to start planning! This session will provide you with a booklet outlining the steps you need to take to jump start your college planning. This session will also cover resources for scholarships, mentorship programs and important deadlines. *Presented by: Isla Young*