Science Half-Day Workshop Agenda

About Your Facilitator:

Vicki Anderson is an active learner and leader. After teaching high school English for many years, Vicki moved to a district position as a K-12 Instructional Technology Coach. She earned her Master of Education degree in Educational Technology from Arizona State University where she now teaches EdTech courses to pre-service teachers as a part-time Academic Associate. Additionally, Vicki acts as the remote Technical Training Manager for STEALTHbits Technologies, Inc. Among other certifications, Vicki is proud to be a Google for Education Certified Trainer and G Suite Administrator. She specializes in digital literacy, technology integration, and innovation in teaching and learning.

Short URL for Resources: bit.ly/ReconAZ

Lesson 1: Introductions/Pedagogy/SAMR	
Getting Started	What are we doing today? **Parking Lot - What do you want to learn?** Introductions
Chromebooks & SAMR	Chromebook Functionality **The Marvels of Chrome and Extensions:** • **Screencastify** • **Share to Classroom** • **OneTab** Discussion of SAMR in schools
Lesson 2: Content Tools	
Digital Science	Designing Lessons and Units **(NGSS 5E model)** Drawings **for sending a copy of template to every student (Slides background)** Immersive Technology**: VR and AR Tools** • **Expeditions** • **YouTube 360 Videos** • **Merge Cube AR**

	• Tour Creator, Nearpod, and Discovery VR • NASA, Google Earth, Arts & Culture, Star Walk, and more! **Some of my district VR resources are linked HERE** **Collaborative Exploration:** • **Option 1: Digital Breakouts - BreakoutEDU** • **Option 2: Google Science Journal** • **Option 3: StemScopes (NGSS) -** Resources → Free Resources • **Option 4: PhET Interactive Simulations**
Voting	**Vote on your favorite tool!**
Extras	**Additional Options:** • **Everfi (free for teachers and students)** • **CK-12** • **Parlay Universe** • **Check out the Geo Tools I used with the Social Studies group** **K-5 Science Resources (which might also be useful in secondary):** • **Generation Genius** • **Mystery Science** • **Explorify**
Data Made Easy	**Data Collection & Analysis:** • **Google Forms for data collection, quizzes, and surveys** • **Sheets for data collection and analysis** **Create: A Google Form quiz or survey**
Please complete the EVALUATION!	
If Time Allows: Projects & Publishing	
Portfolios	**Digital Portfolios and Group Projects:** • **Google Sites** • **Google Slides** • **Apps for Portfolios & Presentations** **Create: Your own Digital Portfolio Template or a Class Website**
More to Explore	
Research	

ELA & Collaboration	**Collaboration and Feedback for Student Research & Writing:** • **The writing process in Google Classroom** • **Explore tool for research** • **Google Keep & "Print to Drive" for saving sources** • **Google Docs - Suggesting mode, comments, version history** • **Other: voice typing & comment banks** • **Apps for Writing and Research** **Collaborative Exploration:** • **Option 1: Google Keep** • **Option 2: Kaizena** • **Option 3: Mentimeter** • **Option 4: Kami**
Social Studies/ History	**Immersive Technology** • **Augmented Reality (AR)** • **Virtual Reality (VR) & 360 Video** • **Visit locations, experience cultural events, and more!** **Collaborative Exploration: Geo Tools - (more resources)** • **Option 1: Google Earth & Google Earth Engine** • **Option 2: Google Maps & MyMaps** • **Option 3: Tour Builder & National Geographic** • **Option 4: True Size Of, Antipodes, & Global Surface Water**
Digital Math Tools	**Math on Chromebooks: Google Keep for Math** **Mobile Device Apps** • **MathNinjaAR** • **GeoGebra AR (3D Calculator)** • **VR Calculus** • **MedievalMath** • **Math VR** • **Google Expeditions** **Collaborative Exploration:** • **Option 1: Knowledgehook** • **Option 2: GeoGebra** • **Option 3: EquatIO** • **Option 4: Edulastic** **Additional Options (unvetted):** • **Desmos** • **IMathAS** • **My Open Math** • **XtraMath** **Getting Artsy with Math and Technology - Article**

Screencasting is NOT Scary	
Screencasting	Screencasts: • Screencastify • YouTube Create: Your own screencast!
Hyperdocs	
Try Hyperdocs	Hyperdocs? • Docs: Table, Hyperdoc, Insert Image, Change color in table • Explore, Explain, Apply • Exploration Create: For a first unit introduction

Try It Later!	
Later or when you're ready for something new, try these out!	Voice & Choice: • Flipgrid • Adobe Spark • Canva • Padlet Create: A back to school flyer or Flipgrid prompt Student Response Ideas: • Flippity -- SERIOUSLY, try this! • Socrative • Edpuzzle • Kahoot! • Classroomscreen Create: Choose one and create a project for one of your first units Resources • Google for Education YouTube channel - EDU in 90 • HistoryTeachers YouTube channel • Horrible Histories YouTube channel • Slides Carnival • ClassTools.net - Fakebook page • Google Arts & Culture • Don't forget Google Drawings
Lesson Planning & Freebies	
Search for Lessons	Free Lesson Plans & Tools • Grow with Google

	- Applied Digital Skills - CS First - CK-12 - Workbench - Amazon Inspire (Education) - Classflow - BetterLesson - Buncee

Link to Evaluation:
https://docs.google.com/forms/d/e/1FAIpQLSf_eiVsMuJakZAe_yIGAju7PW6FZO4wyh2YgE1xiAEY7EGkpw/viewform