Hackathon

Alexa Text Adventure Hack

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- ★ Sarah Schanze
- ★ Monica Uhl
- ★ Rick Parris
- ★ Alexa



ESCAPE FROM MARS





Built Efficiently & Collaboratively

- Quickly built a simple branching text adventure that meets curriculum standards. From conception to publish in 2 days
- Built collaboratively with multiple authors with Twine, Slack, Google Docs, Amazon Alexa Skills Kit & AWS Lambda
- After initial set up level of effort mirrors the current effort to design and build with our Branching Component

- Branching Adventure objective: Identify the correct mineral and launch the ship.
- NGSS Science Alignment:
 - Science and Engineering Practice:
 - Practice 3 Planning and Carrying Out Investigations
- Planning and carrying out investigations in 9-12 builds on K-8 experiences and progresses to include investigations that provide evidence for and test conceptual, mathematical, physical, and empirical models.
- Plan and conduct an investigation individually and collaboratively to produce data to serve as the basis for evidence.
- Select appropriate tools to collect, record, analyze, and evaluate data.

POC VS Future Possibilities

| | Present Offering | Future Possibilities |
|---|---|---|
| • | Proof of concept – branching minimal | Introduce multiple rock samples at the beginning for student to choose and branch to other possibilities. |
| • | The story scenario was built in a classification tree | Proprietary authoring tool could offer a richer experience Categorical (<i>Jeopardy</i> style) quiz for unit or semester review Create many adventure games to increase student engagement |
| • | All text/voice | Add visuals and sound effects |
| • | Optimal for Echo Dot | No additional hardware needed! The Alexa audible interface is coming to Windows10 in Spring 2019. Integrate with other devices such as Fire TV, Android phones & tablets New business model with Android & IOS Apps |
| • | No student data capture | • Capture proficiency data as students progress. We'd be able to identify mastery and misconceptions, and prescribe review or remediation. |
| • | Questions are at Depth of Knowledge (DOK) levels 1-2 | Build in enrichment with higher DOK level questions |

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Thanks!





Appendix



http://twinery.org/



A11y possibilities

• Perfectly suited for alternative experience to Virtual Labs for visually impaired.