Robotics and Coding Lesson

| Lesson Name | Coding Fall Unit |
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| | **In Partnership with Microsoft** |
| Topic: | **Coding and Technology** |
| | **Building Background Knowledge: Research Indigenous Tech companies (they're out there!). How are they using modern technology to help their communities and bridge the past to our future?** |
| | **Some to consider:** |
| | **Murkurtu:** [Mukurtu: A Digital Platform That Does More than Manage Content | The National Endowment for the Humanities (neh.gov)](#) |
| | **7th Generation Games:** |
| | [Integrating math and history, grades 3 - Games That Make You Smarter (7generationgames.com)](#) |
| Objectives: | **Students will be able to engage in coding lessons and apply the knowledge to their own coding projects** |
| | **Students will practice using claim, evidence and reasoning to explain how coding can or has helped indigenous communities and why this important** |
| Internal/External Assets addressed | **Positive Identity: students are optimistic about the future,sense of purpose to make a better future** |
| | **Support: Other adult relationships, other adults helping on a project,** |
| | **Constructive Use of Time: using time outside of school to learn a new skill and apply to own identity/life** |

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| **Standards or language proficiency descriptors:** | **Comparison: develop insight into the nature of language and culture**<br><br>**Connection: connect with other disciplines and acquire new information** |
| **Words of the week** | **Language- look up 'languag' in your own language** |
| **STEPS to success** | 1) **Students will listen and learn about coding**<br>2) **Students will build their own coding projects**<br>3) **Students will consider the future of coding and how it could help indigenous people** |
| **Guiding Questions:** | 1) **In what ways can coding bridge the past and the future?**<br>2) **How can we use this knowledge to improve the lives of indigenous people?**<br>3) **Older students: How can learning the coding language revitalize our indigenous languages?** |
| **Measurable student outcomes:** <br>Signs of cultural growth | **Students will complete the coding unit and engage in discussions and research on how this technology can enhance indigenous lives.** |
| **Traditional Knowledge or Teachings** | **Our people have always adapted and used the new technologies that were shared and that we have discovered to enhance our lives and our world.  For centuries, this was for survival and now science and technology can be used to preserve and share our cultures in a way that we decide how that is done.** |
| **Social Emotional Learning Connection** | **Students will share their mindset before we begin and have that inform how they will approach the project** |