Coding with Young Learners: Why and How

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Let’s Play a Game!

QR CODE

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US-BLS New U.S. STEM Jobs Through 2022 by STEM %

Computing 74%

- System analysis 15%
- Software development 32%
- Support specialist 14%
- Security 3%
- Network/sysadmin 7%
- Other 1%
- Database admin. 2%
- Mathematics 4%
- Engineering 16%
- Physical Sciences 3%
- Life Sciences 3%

Coding/Computer Science

• What is it?
• Why we use it?
  • Computational Thinking
Transportable Skills

These characteristics are supported by the following attitudes and abilities, which are essential dimensions of computational thinking:

- Confidence in dealing with complexity
- Persistence in working with difficult problems
- Tolerance for uncertainty
- Recovery from failure
- The ability to logically formulate a solution to open-ended problems
- The ability to communicate and collaborate with others to achieve a common objective
How?

• How can you integrate PLTW Launch CS in the classroom?
  • Scratch Jr or Scratch
  • Rosie
  • iMovie
• Cross-Curricular Opportunities
  • ELA & Math
• Reflection & Share Out
Introduction to Scratch Jr/Scratch

• Tutorials
  • Getting Started
• Discuss:
  • What are the benefits?
  • How can this be integrated into core content?
  • How would you facilitate this?

Questions?