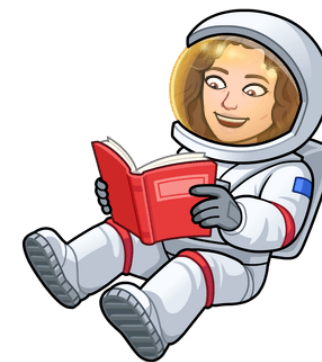


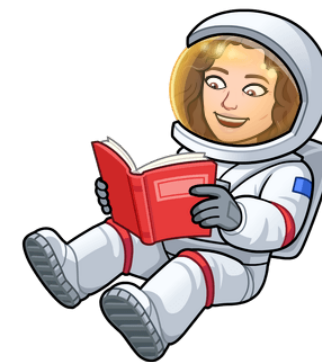
STRATEGIES FOR WORKING WITH TECHNOLOGY AND STEM ACTIVITIES



Our focus in the blended learning courses was to ensure formative assessment and feedback process in lessons. The following strategies, outlined in John Hattie's "[visible learning](#)" 2018 (latest) research as having an impact on student achievement, along with technology tools were used in our professional development sessions are listed below.

Session title	Strategy	Tools to support strategy	Example of use in STEM lesson
Overview of Blended Learning: models, success stories, setting goals	Modeling understanding of a concept through the use of video, partner work, and collaborative documents	YouTube , Padlet , Google Docs , Answergarden.ch	Video as phenomenon; padlet as brainstorming (what do you think is happening here), summarization tools
Tools to Support Student Voice: FlipGrid and Digital Storytelling	Use of flexible assessments using voice, video, text in accessible platforms	Flipgrid , BookCreator	Oral summary of a process, illustration of a process (BookCreator), BookCreator - creation of digital story outlining what you have learned
Incorporating Choice: HyperDocs and Choice Boards	Use of choice in assessment; delivery of a self-contained lesson in an electronic format; use of collaborative tools for summarization and learning process	Hyperdocs as Google Slides , Docs , Sites and choice boards using word processing and publishing tools (Docs, Word, Slides, Sway)	Allowing for self-paced lesson using hyperdocs, hyperlinking content for additional content; incorporating choice; using technology to demonstrate learning

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The Flipped Classroom: instructional video making with WeVideo and Screencastify	Use of instructional videos to explain topics and use of video to provide feedback to students	EdPuzzle , Screencastify , WeVideo	Use of pre-recorded videos with formative assessment built in (EdPuzzle); WeVideo/Screencastify to create voiceovers; audio on presentations
Using ePortfolios to Support Blended Learning: Seesaw, Google Sites, and blogs	Use of eportfolios to collect writings/audio to show growth over a period of time	Seesaw , Google Sites	Use personal writing and audio to describe process, explain answer, ask questions, and reflect on a lesson