### Technology Integration: Designer

#### Competency

| Educator designs authentic, learner-driven activities and environments that recognize and accommodate learner variability. |

#### Key Method

| The educator designs authentic personalized learning experiences that empower students, are aligned to content area standards, and integrate purposeful use of digital tools to accommodate learner preferences and needs. |

#### Method Components

| Components of Blended Learning and Learner-Driven Environments |

There is no all-encompassing definitive description of blended learning. However, in all the definitions, there is a recurring element: in all blended learning environments, there are **learner-driven activities** that accommodate learner variability. The following examples of blended learning are diverse in the activity, but singular in that, in all cases, students purposefully use digital tools and have some choice about how they learn the material and perhaps, also, about how they are assessed.

Examples of blended learning environments:

- **Students rotate** through stations, and some of those stations include digital devices and intelligent adaptive software that gives the students tasks **at or just beyond** the students' proficiency level.
- **Students choose** whether to work independently on research or work in a small group to create an a multi-media product (i.e. infographic,
presentations, digital books) while their teacher consults with individual students.

- **Students watch** teacher-created or teacher-selected videos as a launch for a lesson and get started on their chosen pathway when they are ready.

See the Resources section of this document for multiple resources to support educators in understanding how to create learning experiences that are authentic, learner-driven, and aligned to content standards.

### Components of Purposeful Use of Digital Tools

- When talking about the purposeful use of digital tools, it is useful to consider the SAMR model (Substitution, Augmentation, Modification, Redefinition).
- Using a digital tool to substitute for paper and pencil (i.e. an online worksheet) may be an entry point for teacher and student, but it certainly should not be where the use of digital tools stops.
- When planning for the purposeful use of digital tools, consider first what the goals for learning are. What should students create? A quick phrase to remember is “verbs before tools.”

See the Resources section below for several articles on the SAMR model and purposeful integration of digital tools.

### Tips for Designing Learner-Driven Learning Experiences

- Think about three to four class periods (or two blocks) when planning for blended learning.
  - When designing learner-driven experiences, it is important to think about a series of lessons addressing a larger goal. It can be difficult to offer students meaningful choice that fully addresses a content area standard in a single 45- to 50-minute class period.

- Begin with the standard(s) addressed and the assessment at the end, and then build the choices for the middle. Some examples of choice are:
  - **How a student works** (individually, with a partner, with a small group)
  - **What they do to introduce themselves to a topic** (read about a topic, research, think-pair-share, brainstorm with a group on a padlet or Jamoboard, consult an expert, etc.)
  - **The artifact(s) they create to practice their new-found knowledge** (an infographic, a shared Doc, a video, a photo essay, a presentation, etc.)
Supporting Rationale and Research


http://www.pnas.org/content/111/23/8410?lipi=urn%3Ali%3Apage%3Ad_flagship3_pulse_read%3B5ujlJ92ZQgC6PXO%2BbkuCcQ%3D%3D&utm_source=SwitchUp&utm_medium=Blog

https://doi.org/10.17226/9853.


Resources

Standards
ISTE Standards: Educators
ISTE Standards: Students

Articles
8 Examples of Transforming Lessons Through the SAMR Cycle | Emerging Education Technologies
12 Of The Most Common Types Of Blended Learning
Online Projects Are for Everyone | Education World
SAMR and Bloom’s Taxonomy: Assembling the Puzzle | Common Sense Education
SAMR Model: A Practical Guide for K-12 Classroom Technology Integration | PowerSchool
Technology with a Purpose - EdTech Digest
Transitioning to Blended Learning | Edutopia
What Is Successful Technology Integration? | Edutopia

Videos
» Blended Learning: Making it Work in Your Classroom
» Practical Ways to Integrate Technology in the Classroom (Without Being An Expert)
» Reimagining Classrooms: Teachers as Learners and Students as Leaders | Kayla Delzer ...

Teaching Resources
About Universal Design for Learning
Free Technology for Teachers
Google Teacher Center
Kathy Schrock's Guide to Everything

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Technology Integration Stack
Last Revised on  Oct 9, 2022
Submission Guidelines and Evaluation Criteria

To earn the micro-credential, you must receive a passing score in Parts 1 and 3 and receive a proficient for all components in Part 2.

Part 1. Overview Questions (Provides Context)
(300–400 words)

Please answer the following contextual questions in your response to help our assessor understand your current situation. Please do not include any information that will make you identifiable to your reviewers.

1. Describe your class demographics and your students’ access to digital tools in your classroom, school, and at home; i.e. are you 1:1 with devices, does your school have reliable Wi-Fi, is your school a Google suite for education school, are there limitations on sites your students can access at school, do your students have devices at home with high-speed internet, etc.
2. What are your goals for implementing authentic, personalized learning experiences for your students? In other words, why did you choose this particular micro-credential?
3. Before beginning this micro-credential, where were you in your understanding and practice of the purposeful use of digital tools to create learning experiences that aligned to your content standards and accommodated your learners’ preferences and needs?

Passing: Response provides reasonable and accurate information that justifies the reason for choosing this micro-credential to address specific needs of both the teacher and the student. Educator includes a learning goal that describes what they hope to gain from earning this micro-credential.

Part 2. Work Examples/Artifacts/Evidence

To earn this micro-credential, please submit the following two artifacts as evidence of your learning. Please do not include any information that will make you or your students identifiable to your reviewers.

Artifact 1: Short Unit Plan
A short unit plan that uses approximately 3–5 hours of class time, whether that be 3–5 class periods or 2–3 blocks. Your unit plan should include:

- The content standards being addressed
- Success criteria
- At least two opportunities for students' choice
- At least two assignments that use digital tools to enhance student learning

**NOTE:** Students should have a choice of assignments, not just a choice around which digital tool to use for a particular assignment. For instance, a student might choose from a menu of: write a script, create a video, produce a presentation, author a rap song, etc.

**Artifact 2: Six Student Work Samples**

Work samples should be three different samples from one lesson and three different samples from another lesson. Student work samples should:
- Show 3 different work choices for each lesson
- Clearly demonstrate student choice in approach to learning the same outcome
- Be digital artifacts
- Be annotated with lesson number, learning outcome, and description of activity

**Combine these into one document/file to submit.**

**Tips:**
- If students' choice includes links to assignments, you can paste the links in a document with the annotations on the document. Also, make sure it is shared publicly so that our assessors can access it.
- Screenshots of work could also be taken and pasted into a document and annotated on the document.
- If you have a website with a showcase, paste a link to the students' work that is shared on a website and include a link with annotations on the document you submit.

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**Part 2. Rubric**

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<th></th>
<th>Proficient</th>
<th>Basic</th>
<th>Developing</th>
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<tbody>
<tr>
<td><strong>Artifact 1: Short Unit Plan</strong></td>
<td>Unit plan includes all of the following:</td>
<td>Unit plan includes most of the following:</td>
<td>Unit plan includes only 1 or 2 of the following:</td>
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<tr>
<td></td>
<td>- Content standards</td>
<td>- Content standards</td>
<td>- Content standards</td>
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<tr>
<td></td>
<td>- Success criteria</td>
<td>- Success criteria</td>
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<tr>
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<td>- Time allotted for the unit</td>
<td>- Time allotted for the unit</td>
<td>- Time allotted for the unit</td>
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**Technology Integration Stack**

**Last Revised on:** Oct 9, 2022
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<tr>
<td></td>
<td>-At least 2 separate assignments where students will use digital tools</td>
<td>-At least 2 separate assignments where students will use digital tools</td>
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<td>-At least 2 separate assignments where students have a choice about the type of work artifact produced</td>
<td>-At least 2 separate assignments where students have a choice about the type of work artifact produced</td>
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<td>-Technology improves the delivery of the lesson, student access to content and/or student engagement better</td>
<td>-Technology does not improve or reduces the effectiveness of lesson delivery, student access to content, and/or student engagement</td>
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<td>-Technology reduces the effectiveness of the unit</td>
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<tr>
<td>Artifact 2: 6 Student Work Samples</td>
<td>Six work samples were submitted on one document</td>
<td>Less than six work samples were submitted on one document</td>
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<td></td>
<td>Three different work samples that show three different work choices for each lesson</td>
<td>Work samples do not show unique choices</td>
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<tr>
<td></td>
<td>Work samples clearly demonstrate student choice in approach to learning the same outcome.</td>
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<tr>
<td></td>
<td>The choices are digital artifacts</td>
<td>Work samples are incomplete, unlabeled, and/or not unique.</td>
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<td>All work samples are annotated with</td>
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Part 3. Reflection

(350–500 words)
Use the word count as a guide to write a personal reflection about your work on this micro-credential. For tips on writing a good reflection review the following resource:

How Do I Write a Good Personal Reflection?

1. How did designing authentic, learner-driven activities for your students impact your planning? How did it change your practice in the classroom?
2. How did your students respond to having choice in their assignments?
3. How will your learning experience in this micro-credential impact your planning and classroom activities going forward?

Passing: Reflection provides evidence that the learning for both students and educator were positively impacted by integrating the purposeful use of digital tools into a learner-driven environment. Reflection points to specific examples of how implementing this practice impacted students and examples of how the educator intends to integrate the new learning into future practice.