Formative Assessment Using Technology

1D: DEMONSTRATING KNOWLEDGE OF RESOURCES: *The teacher's knowledge of resources for classroom use and for extending one's professional skill is extensive, including those available through the school or district, in the community, through professional organizations and universities, and on the Internet.*

☐ **Hardware Examples:**

- ✓ Document Cameras: Assess/analyze students using primary sources and articles as well as critique the work of others.
- ✓ BYOD (phones and tablets): Allow students access to online tools (below) to give teachers instant feedback.
- ✓ Promethean/SMART Boards: Assess students' knowledge in class with interactive lessons that helps guide and adjust teaching based upon what students know at each point.
- ✓ Laptops: Allow students access to online tools (below) to give teachers instant feedback.

☐ **Online Examples:**

- ✓ http://www.socrative.com: An online tool that can be used for quick quizzes, exit slips and true/false questions. All results can be archived for future lessons.
- ✓ https://getkahoot.com: A game-based learning response system. Results can be saved and exported into Excel.
- ✓ https://www.plickers.com: An iPhone/iPad app that enables teachers to collect real-time formative assessment data without the need for student devices.
- ✓ http://www.wordle.net: A tool for generating "word clouds" from text. The clouds give greater prominence to words that appear more frequently. Teachers/students can use this to assess the amount of words used in a lab report, paragraph, or essay.
- ✓ http://www.polleverywhere.com: A tool to ask questions in class while receiving responses in real time from mobile devices or laptops.
- ✓ https://www.zipgrade.com: is a grading app that makes grading easy while capturing, storing, and reporting data from assessments.
- ✓ Student Email: Teachers can collect responses in real time. Lessons can be adapted as needed and teachers can gauge pacing based on student responses.

3C: ENGAGING STUDENTS IN LEARNING:

Virtually all students are intellectually engaged in challenging content through well-designed learning tasks and activities that require complex thinking by students. The teacher provides suitable scaffolding and challenges students to explain their thinking. There is evidence of some student initiation of inquiry and student contributions to the exploration of important content; students may serve as resources for one another. The lesson has a clearly defined structure, and the pacing of the lesson provides students the time needed not only to intellectually engage with and reflect upon their learning but also to consolidate their understanding.

Example Scenarios for 3C

- ☐ A teacher combines the use of the document camera and Smart technology to allow students the ability to annotate and manipulate texts, maps, and images. Students are engaged when they are physically involved with the content and the teacher can assess student thinking while they annotate.
- ☐ Plickers is used to review before a test so a teacher can demonstrate good techniques when dealing with answering challenging multiple choice questions. Plickers stores student responses allowing teachers the ability to assess how well every student is performing.
- ☐ Polleverywhere is used in a lesson on student devices (BYOD) to engage and assess student learning. The teacher can measure how well students are grasping the content on the fly and then adapt to the needs of the class.

3D: USING ASSESSMENT IN INSTRUCTION:

Assessment is fully integrated into instruction, through extensive use of formative assessment. Students appear to be aware of, and there is some evidence that they have contributed to, the assessment criteria. Questions and assessments are used regularly to diagnose evidence of learning by individual students. A variety of forms of feedback, from both teacher and peers, is accurate and specific and advances learning. Students self-assess and monitor their own progress. The teacher successfully differentiates instruction to address individual students' misunderstandings.

Example Scenarios for 3D

- ☐ Student email is used to assess individual students during a lesson. The data is stored in Outlook and can be used to give the teacher immediate feedback. This feedback impacts and guides instruction.
- ☐ In the middle of a lesson a teacher uses Kahoot.it to assess the class. This activity allows the teacher to monitor the progress of the class to guide future instruction.
- ☐ Socrative holds students accountable during an entire lesson. The teacher embeds quizzes, exit tickets and lesson reflections. Data from the lesson is used to adjust teaching and learning to meet the needs of all learners.