Technology Integrated Education

Technology integration is the use of technology tools in general content areas in education in order to allow students to apply computer and technology skills to learning and problem solving.Technology integration is defined as the use of technology to enhance and support the educational environment.

Importance of TIE

- **A great way to integrate technology into the classroom is to have students conduct research online for various projects. There are many exciting ways to structure online research tasks. You can also find templates online that make it easy for you to build your own Web Quest project for any subject and grade level.**

Frameworks for Technological Integration

MODEL:

- SMAR

-Substitution

-Augmentation

-Modification

-redefinition

- TPACK

Substitution

- **In this level, technology is considered as a tool substitute with no functional change. This can be done by upgrading or updating tools, while keeping constant the functional use.**
- **Application: Writing Assignment**
- **Previously, we relied on the pen and paper for writing assignments. But now we rely on computers and applications like Microsoft Word, Google Docs and other programs to write and submit assignments**

Augmentation

- **Technology is described as a tool substitute with some functional improvements. Additional uses or benefits of the technology are explored and applied in this level.**

- **Application: Google Docs does not merely help us with the physical task of writing. Instead, we make use of its additional functions like spell check, language correction, grammar check, and thesaurus to prepare assignments of quality standards.**

Modification

- Technology is a tool that allows for significant redesign of lessons. According to this level, the tool is used not just for performing the same functional task, but to modify or redesign parts of the whole activity to transform and enhance student learning. For example, using a voice to text application, students with limited physical ability can still engage in the process of writing.

- Application: The sharing and commenting features present in Google Docs allows for an immediate feedback and correction system. Students can share the drafts of their writing assignments with the teachers and get them reviewed before working on the final documents, resulting in production of higher quality assignments.

Redefinition Model

- Technology is used to create new tasks and activities which were previously inconceivable within a traditional classroom. It allows us to reimagine and revitalize the learning process in the classroom.

- <u>Application:</u> Instead of writing the assignment, students can be instructed to use different multimedia tools and applications for creating a presentation.

- In short, the SAMR Model for technology integration helps teachers to evaluate the suitability and effectiveness of pieces of technology for their classrooms , simplifying the process of selection and implementation of that technology. A printable of the SAMR Model is available for your classrooms.