Cervantes Training
Alcalá de Henares. Madrid
Spain

CervantesTraining KA1 Erasmus+Staff Training Courses

Email : cervantestraining@outlook.com

Visit: http://www.cervantestraining.eu/

Twitter: https://twitter.com/ErasmusTraining

Facebook:

https://www.facebook.com/KA1.Learning.Mobility.Erasmusplus

Integrating Technology In a Classroom Lesson

Step-by-Step Instructions on how to

Integrate technology in a classroom lesson

Instructional Goal and Performance-Based Objectives

- ## **<u>Instructional Goal</u>**
  - At the end of this tutorial, the educator will confidently create a lesson plan in any subject area/grade level that properly integrates technology with 90% accuracy.

- ## **<u>Performance-Based Objectives</u>**
  - Using the Internet for research, the educator will identify the technology skills needed by students to complete the planned activity in the lesson with 100% accuracy.
  - Using State Standards and the National Educational Technology Standards, the educator will generate at least two learning objectives that include the way in which technology will be used in the lesson with 90% accuracy.
  - Using a word processor, the educator will create a 30-45 minute lesson in any subject area/grade level with at least 90% accuracy.

Introduction and Instructions

The purpose of this tutorial is to inform you of the importance of technology integration in the classroom and also to show you how you can create and teach a lesson that properly integrates technology in your classroom. Integration of technology does not mean simply using a computer in a lesson or playing a math game on the computer lab. Properly integrating technology means to use technology to enhance or support instruction.

Instructions: To go to the next slide, using your keypad, click on the arrow that points toward the right: ➜
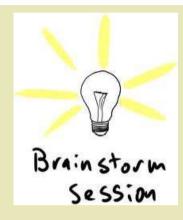
Introducing Mr. Nology

This is **MR. NOLOGY.** He will be your guide throughout this tutorial. As you all know technology is not always used the way it should be in schools or classrooms. Just because a school has computers, laptops, smart boards, or other technological devices, does not mean they are successfully integrating it into classroom instruction. The goal of this tutorial, is for you to create a lesson plan in any subject area/grade level that properly integrates technology.

Time to Brainstorm

- *Instructions: Answer the following two questions by yourself or in a group (please write or type your answers):*

  - Question #1: What does the integration of technology mean to you?

  - Question #2: Is integrating technology in a lesson important to you? Why or why not?

What is technology integration?

- According to Edutopia (2013), "Effective technology integration is achieved when its use supports curricular goals" (Technology Integration is Key).

- Click on the link below to watch a short video about technology integration:

  http://www.edutopia.org/technology-integration-introduction-video

Why is the integration of technology so important to me and should be important to you?

I was not exposed to technology until I was in middle school. My elementary school teachers did not incorporate technology into lessons other than the use of an overhead projector. In middle school, I transferred to a different school zone. Technology was very present in the curriculum and in daily instruction. Compared to other students who had attended school in that particular district for elementary and middle school, I was behind in regard to proper use of technological devices. Once I was introduced to computers and other technological devices, it did not take me long to learn how to use them. It was not only fun when the teachers would use technology, it was very engaging.

I have observed the effects of students who have been deprived of using technology. I believe integrating technology into curriculum guides and instructional practices will enhance learning, and engage students. . As a teacher, I want all students to be ready and able to compete with students in the United States as well as students from other countries. I do not think it is fair for one or two teachers to integrate technology and others not to do so. This is why a plan to integrate technology in the curriculum and instructional practices needs to be implemented.

WHY IS TECHNOLOGY INTEGRATION IMPORTANT?

I have explained why I think technology integration in the classroom is important to me. Now, lets listen in on why Principal Ben Goodman also thinks it is important. **To view the video:** Use your mouse to click on the question "Why is technology integration important), which is under the graphic: Mr. Nology.

Video Review Question

- *Instructions: Answer the following question by yourself or in a group (please write or type your answer):*
  - Question #1: Do you agree with any or some of what was stated in the video? Explain your answer.

Let's Begin!

Now that you know why the integration of technology in a classroom lesson is important, lets learn how to create a lesson plan that PROPERLY integrates technology. Here are six steps to follow when writing a lesson with technology integration.

Steps 1 and 2

- ## Step 1: Plan Your Lesson WITHOUT the Technology Integration First
  - If you do not teach a specific subject area, decide what type of lesson you want to teach (i.e. math, social studies, science, etc.).
  - Once you know the subject area, start developing your goals and objectives of the lesson (without the technology integration).
  - Develop your entire lesson without the technology integration first.

- ## Step 2: Know your Resources
  - Do you have the proper equipment in the school for your lesson (i.e., computer lab, individual computer in the class, Ipad's, Cell phones, Internet Access, etc.)?

Step 3

- **Step 3: Research the technology standards that correlate with your lesson**

  - Identify the technology skills needed by students to complete the planned activity in the lesson: You can write these down on the side or write/type them into your lesson. Once you know what specific technology skills are needed, then it's time to research!

  - If your school has a curriculum plan with technology standards, look there first. If your school DOES NOT have a technology curriculum, visit your state's Department of Education webpage. Most state education websites have standards listed.

Example of <u>Steps 1-2</u> using a sixth grade social studies lesson plan

- **Step 1: Planning the lesson without technology: 6th grade Social Studies Lesson on an Influential Minority**
  - Upon review of the weekly vocabulary, the learner will define what a **minority** is with 100% accuracy
  - The learner will research an influential minority in history with 100% accuracy.
  - The learner will create a presentation that describes their findings with 100% accuracy.
  - Using a provided rubric, the learner will give an oral presentation of their influential minority with at least 90% accuracy.
- **Step 2: Know your resources**
  - The school has a computer lab with Internet access
  - Each classroom has three computers for student use (Internet access.
  - Computer labs and laptops have Microsoft Excel, PowerPoint, and Word

Example of <u>Step 3</u> using a sixth grade social studies lesson plan

- **Step 3: Research the technology standards that correlate with your lesson**

  – Technology Skills needed for this lesson: Know how to research information on the Internet and know how to create a PowerPoint Presentation.

  – School does not have a technology curriculum, so will visit the Kansas Department of Education website.

  – Technology Standard/Benchmark: 1.4.1, 3.1.1, 3.2.1, and many more.

Steps 4 and 5

- **Step 4: Write learning objectives/performance objectives that include technology**

  - Use the technology standards you have found and your initial learning objectives to develop specific objectives that include the technology integration

- **Step 5: Know how you will assess the technology component of your lesson**

  - Will you use a rubric? Will you use teacher observation? How will you know if students understand both the instructional content and the technology you integrated?

Step 6

- **Step 6: Plan your lesson WITH the technology integration**

  - **Either add or rewrite your performance objectives with the technology integration**

  - **In your lesson plan, be sure to add your assessment of both the instructional content and the technology component.**

  - **Be sure to include the technology resources you use in your lesson plan.**

Example of <u>Steps 4-5</u> using a sixth grade social studies lesson plan

- **Step 4: Write learning objectives/performance objectives that include technology**

    – Using the Internet in the computer lab, learner will research an influential minority with 100% accuracy.

    – Using Microsoft Word, the learner will write a three paragraph report about his or her findings with 100% accuracy.

    – Using Microsoft PowerPoint, the learner will create a presentation providing a biography of the influential minority with at least 90% accuracy.

- **Step 5: Know how you will assess the technology component of your lesson**

    – Students will be graded using a rubric and teacher observation