
Differentiating Instruction by Integrating Technology in the Elementary Classroom

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Differentiating Instruction By Using Technology

- How do I do that?
- Why should I do that?
- Why does it benefit my students?

Why Should Teachers Integrate Technology in the Classroom?

- “When students are using technology as a tool or a support for communicating with others, they are in an active role rather than the passive role of recipient of information transmitted by a teacher, textbook, or broadcast.” (<http://www2.ed.gov/pubs/EdReformStudies/EdTech/effectsstudents.html>)

How Do Students Benefit by Learning with Technology?

- It Makes it FUN!!!
- Students are more ENGAGED!!!!
- The teacher can make it INTERACTIVE.
- The students find ways to explore and discover learning with technology which promotes Inquiry based learning and strengthens problem solving skills.
- It allows the teacher to meet the needs of ALL students and facilitate learning!

How Technology Plays a Role in Student Learning on a Daily Basis?

- One Size Does NOT Fit All.
- Allows Visual Graphics to make concepts and skills *real* for them
- Sound brings concepts to life
- Field Trips can be done virtually to enhance learning
- Graphic Organizers become interactive.
- Recorded readings allow those who struggle with reading to understand the story.
- Drawings from the child allows the artistic children to express themselves
- Teachers can keep track on children's progress short and long term

How do I Differentiate Instruction with Technology?

- Remediate and Enrich lessons by using Interactive Educational Software that will allow students to work on their level and close the gap or enrich their learning while the class is working in centers.

Virtual Manipulatives allow the students to solve problems and interact with the White Board.

Example #2

**Use Interactive Sites from the Internet with
your Interactive Technology that enhances
your teaching to engage your students.**

Example #3

Create quick quizzes that are around 5 questions that allow you to quickly assess whether your students understood the material that you are teaching. Rotate them through your student stations. When you create it, I would recommend that you have pictures as choices for multiple choice answers.

Example #4

**Create Interactive PowerPoint Presentations
that are linked with hyperlinks to show short
video clips to enhance what you are teaching**

Example #5

**Download Interactive Educational Lessons
for the Smart Tables and strategically group
the students to enhance learning**

Example #6

“Another effect of technology cited by a great majority of teachers is an increased inclination on the part of students to *work cooperatively* and to *provide peer tutoring*.”

(<http://www2.ed.gov/pubs/EdReformStudies/EdTech/effectsstudents.html>)

Effects of Technology on Classrooms and Students

Give Them Choices

- Set Up Centers
- Create a “Choice Sheet” Using Blooms Taxonomy
- Create a project that allows them to choose their activities based on their learning style
- Create inquiry based activities that encourage the students to utilize their higher order thinking skills and integrate a technology component to present it or enhance it.

Challenges of Preparing for Standardized Tests

- Students cannot read the questions.
- Students do not understand what the question is asking.
- Students cannot bubble in the answers.
- The test questions are too hard.

Using Technology To Prepare For Standardized Testing

- Use Clickers
- Create Questions that mimic the test
- Color Code Key Words in Using Technology
- Choose Interactive Sites that are going to be on that students level
- When using Educational Software, be sure to choose one that is going to address the students “problem areas” at the lowest granular level.
- Try to use Interactive Sites and Educational Games that will read the questions to the students

Suggestions When Creating Test Items

- If your Standardized Test Items are Multiple Choice, practice taking Multiple Choice Tests.
- Create different versions of the test based on ability levels.
- Set the bar high. Teach the students how to take tests early.
- Start how you want to finish!

Summary

- All Students Can Learn
- Set Your Standards High!!
- Help Your Students Achieve To Their Fullest Potential
- Give Your Students Choices
- Incorporate Technology Daily
- Start How You Want To Finish!

References

- Effects of Technology on Classrooms and Students (2012). Retrieved on March 1, 2012 from <http://www2.ed.gov/pubs/EdReformStudies/EdTech/effectsstudents.html>.