Technology and Common Core

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Goals for this session

• As a result of this activity, the participant will be able to **integrate multiple instructional strategies** from various online resources.

• As a result of this activity, the participant will **analyze ways technology can be included** in the common core curriculum.

• As a result of this activity, the participant will **apply strategies to alter their teaching** of students with disabilities.
Survey (Poll Everywhere)

K-12 education plans
Over 100,000 Educators use Poll Everywhere in their classrooms

K-12 basic
Free
Great activities for your students.
Sign up
- 40 responses per poll
- Unlimited number of classes
- Multiple-choice & true/false polls
- Open-ended polls with live word-cloud
- PowerPoint integration
- Embedded equations in polls
- FAQ support

K-12 premium
$50/year
Best for day-to-day classroom use.
Sign up
- 40 responses per poll
- Unlimited number of classes
- Multiple-choice & true/false polls
- Open-ended polls with live word-cloud
- Grade & attendance
- Advanced reporting
- Response moderation
- PowerPoint integration
- Embedded equations in polls
- Email support

Institution-wide plan
$500+
Best value for broad adoption.
Contact Us
- 200+ responses per poll
- Unlimited number of classes
- Multiple-choice & true/false polls
- Open-ended polls with live word-cloud
- Grade & attendance
- Advanced reporting
- Response moderation
- PowerPoint integration
- Embedded equations in polls
- Share polls among teachers
- Professional Development
- School-wide Events
- Tier 2 support
Show how to create FAST

- [http://www.polleverywhere.com](http://www.polleverywhere.com)
- What main type of technology do you currently use in your classroom lesson planning?
  - Websites
  - PowerPoint presentations
  - Tablets and ipads
  - Online games
  - Other
Common Core Discussion

Quick Pause for Laughter Break
Cliché...

- Work smarter – not harder!

“Workaholics aren’t heroes. They don’t save the day, they use it up. The real hero is already home... Because she figured out a faster way to get things done.”

- Jason Friend & David Heinemeler Hansson -

Happyologist.co.uk
WORK SMART

Not hard.
WORK SMARTER

NOT HARDER
WORK SMARTER

NOT HARDER
Mathematics

- [https://njctl.org](https://njctl.org)
  - New Jersey Center for Teaching & Learning
  - This site is basically an entire curriculum for the common core in **math** and **science**.
  - There are lesson plans, worksheets, homework, projects, etc.
  - Intervention pages are also available.
  - Everything is also in Spanish as well.
  - Most items have whiteboard components or PDF versions
Math - [https://njctl.org/](https://njctl.org/)
Sample Items

- IDEA conference Presentation Files\Grade5, Year Long Plan Paced with NJ Model Curriculum-2012-07-31.xlsx (yearlong plan)

- IDEA conference Presentation Files\Measurement & Data CW-HW-2014-03-19.pdf (Homework sample)
Mathematics

• [http://commoncoresheets.com/](http://commoncoresheets.com/)
  – This site has pre-made worksheets for all standards sorted by topics.
  – Worksheets are usually in PDF format with a variety of “versions” for differentiation.
Math -

http://commoncoresheets.com/
Math and Science

- [http://fabulous5thgrade.weebly.com/mathscience](http://fabulous5thgrade.weebly.com/mathscience) (just learned this site – not sure how great)
  - A website focused on 5th grade common core standards from a teacher in NC.
  - Has multiple links for multiple topics concerning math/science
Math worksheets

- [http://ws.mathsdoctor.tv/](http://ws.mathsdoctor.tv/)
  - This site is from United Kingdom (some things are different).
  - Worksheet printed with QR code and website that links to a VIDEO that shows HOW to do the assigned problems.
  - Funded based upon tutoring prices – which is offered after every video
  - Items NOT organized well
Example

Resources

QR Worksheets are our brand new Open Education Resource for GCSE and A level maths teachers and pupils

More than 250 interactive QR Worksheets with their online video tutorials are designed to make both teaching and learning maths easier - and they're free and easy to use anytime, anywhere, with access via phone and computer.

Find out more and put QR Worksheets to the test - click on the appropriate button:

- ALGEBRA
- DATA HANDLING
- NUMBERS
- SHAPES & NUMBERS
Math Numbers Example

- **IDEA conference Presentation Files\MathDr.pdf**
- QR code at top of sheet links to video for support. If you don’t have a QR reader, there is also a web address.
Math Manipulatives and Lessons

• [http://illuminations.nctm.org/](http://illuminations.nctm.org/)
  – Lessons and Interactive websites
  – Sponsored by NCTM, Thinkfinity
Mathematics

- [https://www.illustrativemathematics.org/](https://www.illustrativemathematics.org/)
  - This site gives ready to use tasks to complete based upon Common Core Standards.
  - You can search by grade level
Grade 3

3.OA. Grade 3 - Operations and Algebraic Thinking

3.OA.A. Represent and solve problems involving multiplication and division.

- No tasks yet illustrate this standard.

3.OA.A.1. Interpret products of whole numbers, e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as 5 × 7.

- No tasks yet illustrate this standard.

3.OA.A.2. Interpret whole-number quotients of whole numbers, e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. For example, describe a context in which a number of shares or a number of groups can be expressed as 56 ÷ 8.

- 3.OA.A. Fish Tanks
- 3.OA.A. Markers in Boxes

3.OA.A.3. Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

- 3.OA.A. Two Interpretations of Division
- 3.OA.A. Solving Word Problems Involving Multiplication
- 3.OA.A. Gifts from Grandma, Variation 1
- 3.OA.A. MD. NBT Classroom Supplies

3.OA.A.4. Determine the unknown whole number in a multiplication or division equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations 8 × ? = 48, 5 = ? ÷ 3, 6 × ? = 7.

- 3.OA.A. Finding the unknown in a division equation
English and Math

http://learnzillion.com/

• Videos created by teachers for common core standards
• You can assign videos by just giving a “quick code”
• Free membership
• Can set up classes and assign videos to students and have quizzes after material is presented.
• Beta testing Math Lesson Plans
• ALL TEACHER CREATED
http://learnzillion.com
Common Core lesson plans, ready-to-go

Use these lesson plans to teach the most essential Common Core standards. Start with a great whole group lesson; follow up with practice and differentiation.

Grades 3rd 4th 5th 6th 7th 8th

NUMBER AND OPERATIONS IN BASE TEN

- Understand the value of a digit in a multi-digit number
  In this lesson you will learn how to find the value of a digit by using arrow cards.
  3.NBT.1

- Round to the nearest ten using a number line
  In this lesson you will learn how to round to the nearest 10 by using a number line.
  3.NBT.1

- Round to the nearest hundred using base ten blocks
  In this lesson you will learn how to round to the nearest hundred using base ten blocks.
  3.NBT.1

- Solve addition word problems by identifying key phrases
  In this lesson you will solve addition word problems by identifying key phrases.
  3.NBT.2

- Use addition and subtraction fact families to solve for unknown amounts
  In this lesson you will solve for unknown amounts by using addition and subtraction fact families.
  3.NBT.2

- Solve subtraction word problems by identifying key phrases
  In this lesson you will solve subtraction word problems by identifying key phrases.
  3.NBT.2
Quick Code (Ex. LZ1791)
ALL Subjects

http://www.teacherspayteachers.com/

• This site has teacher created materials for sale and for free.
All subjects

https://www.masteryconnect.com/

• Search by keywords or subject and common core and grade level.
• Pre-made worksheets and assessments made by teachers
• FREE!
All Subjects

https://www.masteryconnect.com/
All subjects

http://watchknowlearn.org/

- Videos that are appropriate for schools
- New categories for common core per grade level
All subjects (mostly math)

- **www.khanacademy.com**
  - View videos on how to do variety of topics
  - Great to share with PARENTS to help them understand topics.

- **https://www.khanacademy.org/commoncore/map**
  - Practice problems for students to complete
  - Watch a video for support
Khan Academy “coach”

- You can create classes to view what your students are doing in Khan Academy and how they are performing on assignments.
All subjects

- https://www.teachingchannel.org/
  - Videos for common core
ELA and Math

• [http://achievethecore.org/](http://achievethecore.org/)
Connections –
https://www.edmodo.com/

- Online community for teachers to share ideas
- Similar to Facebook – can share with students
Contact Information

Deanna Cross – dcross@dcboe.com or dfcgsw@yahoo.com

Teacher Website

http://huttomiddle.dcboe.com – search staff pages – Deanna Cross