# Meet the Common Core challenge!



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## The Classroom Agenda: Better Thinking

What to	How to Learn
Learn	—Apply Skills and Strategies in Activities
MATH Knowledge Skills Strategies	Some skills students need to use: Classify Sequence Estimate Measure Calculate Compute Analyze Apply Evaluate Communicate
READING Knowledge Skills Strategies	Some skills students need to use: Sequence Compare Contrast Analyze Infer Interpret Summarize Synthesize Evaluate Communicate
SCIENCE and SOCIAL STUDIES Knowledge Skills Strategies	Some skills students need to use: Compare Contrast Analyze Sequence Infer Summarize Evaluate Synthesize Communicate

- ✓ PARCC, ACT, and SAT check these skills.
- $\checkmark$  They use challenging tasks to find out how capable the students are.
- Students need multiple opportunities to develop the ability to use these skills to respond to those challenging tasks.

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Goal	Actions
Increase Literacy Progress	
Increase Math Progress	
Strengthen Social Emotional Development	

# **Progressive People are..**

collaborative	creative	determined
flexíble	focused	independent
open minded	resílíent	visionary
thoughtful		

## Add 2 more traits.

# Choose one and write or tell an example of how you have demonstrated that trait.

### **PROGRESS REQUIRES PERSISTENCE and PERSPECTIVE.**

"Where there's a will there's a way." *Eastern and Central Africa* 

"Worry is like a rocking chair. It will give you something to do, but won't get you anywhere." (American)

"Beginning is easy; continuing is hard." (Japan)

"The ultimate measure of a man is now where he stands in moments of comfort and convenience, but where he stands at times of challenge and controversy." (Dr. Martin Luther King, Jr.)

"In youth we learn; with age we understand." (Mexico)

"It always seems impossible until it's done." Nelson Mandela ⇔⇔



Example of a Learning Reporter that Integrates Social Emotional Development.

My Progress!	My Name:	
I learned more about:		
How I did it: Icolla	boratedhelped other studentssolved a problem	
What I like about this	program:	
What I like about mys	elf:	



## Meet the Math Challenge

What does Common Core Math require?

It's a three-part map:

- ✓ Knowledge of number value patterns and math rules
- ✓ Ability to solve problems—figure out which rules apply—in contexts that start simple and move to complex and abstract
- ✓ Knowledge and ability to apply math strategies

Examples of Math Activities that students would enjoy doing.

- $\checkmark$  Use geometry and measurement to design and then build a bridge
- ✓ Organize projects such as "your own store" (teacher.depaul.edu) to involve students in actively applying a variety of math skills.

## **Give Students Choices: Math Activities**

- $\Box$  Create math problems.
- □ Collaborate to solve a problem.
- □ Exchange questions, solve, compare responses.
- $\Box$  Write math guides.
- □ Write "rules of the road" for different kinds of math problems.
- □ Create cartoons in which characters solve the problem.
- □ Play a math game, explain how to win.
- □ Write a children's math booklet.
- $\Box$  Write math poem or song.
- □ Connect math to money—for example, set up "your own business".
- □ Math "Bowl"—students solve a variety of problems in teams

## It's Your Business, and You Need Math

CCSS Math Practice Standard 1. Make sense of problems and persevere in solving them.

Choose a business.

What workers will you need and how much will you pay them?

WORKER What's the job?	Hourly Wage	Hours Per Week	Weekly Total

How much do you pay in wages each week? \$\_\_\_\_\_

\$

Add 23% to that amount.

That is to pay taxes and benefits to your workers.

Total wages each week: \$\_\_\_\_\_

23% of that total:

\$

Total with Taxes and Benefits

Added Problem! Your workers demand a 10% increase in their wages. You decide to pay 6%. What will you have to pay them now?

\$\_\_\_\_\_

(Remember that taxes don't change, just the wages.)

(For the complete Business Math set of activities: teacher.depaul.edu)

## Think Actively Make Your Own Multiple Choice Question

Question Maker: Write your question here.

Write the correct answer and three other possible answers here:

a.	С.
b.	d.

#### **Question Taker:**

Circle the best answer. Then, in the oval, explain why you chose that answer.



Common Core = Great Thinking ©2014 Polk Bros. Foundation Center for Urban Education THINK IT THROUGH

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Kind of Problem: \_\_\_\_\_

Steps to Solve It:

Put an example of a good solution here.

 $\Box$ 

## Think ahead to Successfully Solve a Math Problem.

What is the question asking me to figure out?	
How will I solve it?	
What information do I need to solve it?	

Then solve it.

You can collaborate with another student to solve the problem—or pair and compare to learn different ways to solve the same problem.

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## Chicago Math Project Tasks: A Community School Resource

These tasks involve students in realizing that there are many different jobs in the city as they review/re-use math skills Research confirms that if students re-use math skills they learned they will be able to maintain their math abilities.

Task	Competence	Learning Plan
1	Interpreting a data table Addition, subtraction and multiplication with decimals Estimation	<ol> <li>Complete the math survey.</li> <li>Choose a job you'd like.</li> <li>Compare and contrast amounts paid for different jobs—how much more than another worker would you earn?</li> <li>Figure out weekly wage; estimate annual income</li> <li>Make up a word problem based on the information in the activity.</li> </ol>
2	Interpreting a data table Multiplication with decimals Multiplication with percentages	Some workers are part-time. Figure out what a worker in a job you would like would earn if the worker works on a part-time basis for 20 hours a week. That worker gets a raise of 6%. How much does the worker earn after that raise? Then make up word problems based on different numbers of hours for a part-time worker. And give the worker a raise! RESOURCE: TASK GUIDE 2 plus JOBS TABLE (2 pages)
3	Calculating area Converting yards to feet Multiplying decimals Calculating cost including materials and wages.	Landscaper task—simulation of a realistic situation in which a landscaper has to purchase sod for playground. Then (extra challenge) make up a math problem based on the same information. RESOURCE: TASK GUIDE 3 plus Multiple Choice Problem Maker Plus salary from JOBS Table
4	Constructing and analyzing a bar graph	Make a bar graph in which you show the number of jobs in five different categories you would like to have. Write a math problem based on the graph. RESOURCE: Use the jobs table plus graph paper or the graph maker.
5	Multiplying with percentages	Think about jobs that will increase. They predict and support their idea. Then they calculate what the number of workers in those jobs will be in 2020 if there is a 7% increase in the number of jobs in those categories. Then they figure out raises—explain that if there is increased demand for a kind of job then workers may get a higher salary. RESOURCE: TASK GUIDE 5 plus JOBS TABLE

### **Chicago Area Jobs**

The first column lists **some** of the **many kinds of jobs** in the Chicago area. Column 2 lists **the number of jobs in the Chicago area** in each field in 2014. Column 3 lists the hourly wage. *To get information about these jobs and many more, go* <u>http://www.bls.gov/ooh/a-z-index.htm</u>

KINDS OF JOBS	Number of Chicago Jobs	Hourly Wage
Aerospace Engineers	230	\$45.84
Anesthesiologists	1,310	\$94.26
Arbitrators, Mediators, and Conciliators	200	\$36.78
Architects	3,140	\$35.12
Audio and Video Equipment Technicians	2,090	\$19.90
Bookkeeping, Accounting, and Auditing Clerks	34,270	\$19.31
Broadcast Technicians	740	\$19.83
Camera Operators, Television, Video, and	660	<u> </u>
Motion Picture	000	<b>⊅∠</b> /./
Chemists	1,700	\$34.97
Child, Family, and School Social Workers	9,430	\$26.42
Choreographers	40	\$24.20
Clergy	1,180	\$20.04
Clinical, Counseling, and School Psychologists	3,040	\$31.61
Community Health Workers	1,870	\$18.31
Computer Network Support Specialists	4,290	\$30.58
Computer Programmers	16,480	\$36.41
Computer User Support Specialists	13,790	\$25.25
Customer Service Representatives	74,600	\$18.06
Dancers	420	\$19.31
Dental Hygienists	4,660	\$33.99
Dentists, General	2,550	\$62.86
Dietitians and Nutritionists	1,330	\$24.82
Editors	3,340	\$26.31
Educational, Guidance, School, and Vocational Counselors	5,930	\$31.51
Electrical and Electronics Drafters	420	\$28.44
Electrical Engineers	3,220	\$43.03
Emergency Medical Technicians and	8,570	\$28.20
Falametics	830	¢29.70
Film and Video Editors	<u> </u>	\$30.70 \$26.80
Finit and Video Editors	345 110	φ20.09 \$10.47.21.47
Forensia Science Technicians	340,110	\$10.47-21.47 \$29.95
	1 100	\$30.00 \$25.62
Healthearo Social Workers	1,190	₹0.03 ¢01.10
Hetel Motel and Report Deck Clarks	2,700	ወረዓ.ዓረ ወደ መደረ መደረ መደረ መደረ መደረ መደረ መደረ መደረ መደረ መደ
Interpreters and Translators	4,080	۵۱۱.34 ¢۱۵.04
	1,420	\$10.94

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## Expand Learning with Engaging Activities

Jobs         Jobs           Landscapers         230         \$25.77           Lawyers         23310         \$65.83           Marriage and Family Therapists         110         \$20.51           Medical and Clinical Laboratory Technicians         3.420         \$20.01           Mental Health Counselors         2.950         \$22.85           Microbiologists         160         \$40.66           Musicians and Singers         1.120         \$17.91           Nurse Practitioners         1.890         \$42.03           Occupational Therapists         3.200         \$55.25           Paralegals and Legal Assistants         10.470         \$55.25           Paralegals and Legal Assistants         10.470         \$24.10           Payroll and Timekeeping Clerks         4.160         \$20.80           Pharmacists         6.800         \$55.17           Pharmacy Technicians         11.070         \$13.70           Physical Therapists         7.180         \$36.84           Physician Assistants         1,580         \$37.98           Public Relations Specialists         4.870         \$32.30           Radio and Television Announcers         810         \$24.66           Repotters         4.910	KINDS OF JOBS	Number of Chicago	Hourly Wage
Landscapers         230         \$25.77           Lawyers         23,310         \$66.83           Marriage and Family Therapists         110         \$20.51           Medical and Clinical Laboratory Technicians         3,420         \$20.01           Mental Health Counselors         2,950         \$22.85           Microbiologists         160         \$40.66           Music Directors and Composers         710         \$31.36           Musicans and Singers         1,120         \$17.91           Nurse Practitioners         1,890         \$42.03           Occupational Therapists         3,200         \$35.45           Optometrists         10,470         \$24.10           Paralegals and Legal Assistants         10,470         \$24.10           Payroll and Timekeeping Clerks         4,160         \$20.88           Pharmacists         6,800         \$55.17           Pharscial Therapists         7,180         \$36.84           Physical Therapists         7,180         \$36.84           Physical Assistants         1,560         \$37.98           Plumbers         11,350         \$34.59           Polic Relations Specialists         4,870         \$32.30           Radio and Television Announcers </th <th></th> <th>Jobs</th> <th></th>		Jobs	
Lawyers         23,310         \$65.83           Marriage and Family Therapists         110         \$20.51           Medical and Clinical Laboratory Technicians         3,420         \$20.01           Mental Health Counselors         2,950         \$22.85           Microbiologists         160         \$40.66           Music Directors and Composers         710         \$31.36           Musicans and Singers         1,120         \$17.91           Nurse Practitioners         1,890         \$42.03           Occupational Therapists         3,200         \$35.45           Optometrists         10,010         \$55.25           Paralegals and Legal Assistants         10,470         \$24.10           Payroll and Timekeeping Clerks         4,160         \$20.88           Pharmacists         6,800         \$55.17           Pharmacy Technicians         11,070         \$13.70           Photographers         1,760         \$15.87           Physical Therapists         7,180         \$36.84           Physical Therapists         7,180         \$34.59           Podiatrists         340         \$64.27           Private Detectives         800         \$21.76           Public Relations Specialists	Landscapers	230	\$25.77
Marriage and Family Therapists         110         \$20.51           Medical and Clinical Laboratory Technicians         3,420         \$20.01           Mental Health Counselors         2,950         \$22.85           Microbiologists         160         \$40.66           Music Directors and Composers         7.10         \$31.36           Musicians and Singers         1,120         \$17.91           Nurse Practitioners         1,890         \$42.03           Occupational Therapists         3,200         \$35.45           Optimetrists         1,010         \$55.25           Paralegals and Legal Assistants         10,470         \$24.10           Payroll and Timekeeping Clerks         4,160         \$20.88           Pharmacists         6,800         \$55.17           Pharmacy Technicians         11,700         \$13.70           Photographers         1,760         \$15.87           Physical Therapists         7,180         \$36.49           Physical Therapists         1,350         \$33.459           Polidatrists         4,870         \$32.30           Radio and Television Announcers         810         \$24.66           Real Estate Sales Agents         4,320         \$33.20           Solic	Lawyers	23,310	\$65.83
Medical and Clinical Laboratory Technicians         3,420         \$20.01           Mental Health Counselors         2,950         \$22.85           Microbiologists         160         \$40.66           Music Directors and Composers         710         \$31.36           Musicians and Singers         1,120         \$17.91           Nurse Practitioners         1,890         \$42.03           Occupational Therapists         3,200         \$35.45           Optometrists         1,010         \$50.34           Orthodontists         710         \$55.25           Paralegals and Legal Assistants         10,470         \$24.10           Payroll and Timekeeping Clerks         4,160         \$20.88           Pharmacists         6,800         \$55.17           Pharmacy Technicians         11,070         \$11.370           Photographers         1,760         \$11.87           Physical Therapists         7,180         \$36.84           Physician Assistants         1,580         \$37.98           Plumbers         11,350         \$34.59           Podiatrists         4,870         \$32.30           Public Relations Specialists         4,870         \$32.30           Registered Nurses         69,0	Marriage and Family Therapists	110	\$20.51
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Microbiologists         160         \$40.66           Music Directors and Composers         710         \$31.36           Musicians and Singers         1,120         \$17.91           Nurse Practitioners         1,890         \$42.03           Occupational Therapists         3,200         \$35.45           Optometrists         1,010         \$50.34           Orthodontists         710         \$55.25           Paralegals and Legal Assistants         10,470         \$24.10           Payroll and Timekeeping Clerks         4,160         \$20.88           Pharmacists         6,800         \$55.17           Pharmacy Technicians         11,070         \$13.70           Photographers         1,760         \$15.87           Physical Therapists         7,180         \$36.84           Physician Assistants         1,580         \$37.98           Plumbers         11,350         \$34.59           Podiatrists         340         \$64.27           Private Detectives         800         \$21.76           Public Relations Specialists         4,870         \$32.30           Radio and Television Announcers         810         \$24.66           Respiratory Therapists         2,760         \$	Mental Health Counselors	2,950	\$22.85
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Musicians and Singers         1,120         \$17.91           Nurse Practitioners         1,890         \$42.03           Occupational Therapists         3,200         \$35.45           Optometrists         1,010         \$50.34           Orthodontists         710         \$55.25           Paralegals and Legal Assistants         10,470         \$24.10           Payroll and Timekeeping Clerks         4,160         \$20.88           Pharmacists         6,800         \$55.17           Pharmacists         6,800         \$55.17           Pharmacy Technicians         11,070         \$13.70           Physical Therapists         7,180         \$34.87           Physical Therapists         7,180         \$34.59           Physician Assistants         11,350         \$37.98           Plumbers         11,350         \$32.30           Radio and Television Announcers         800         \$21.76           Public Relations Specialists         4,870         \$32.30           Respiratory Therapists         2,760         \$27.35           Sales Representatives         49,570         \$33.29           Social and Turses         69,050         \$34.46           Respiratory Therapists         2,760 <td>Music Directors and Composers</td> <td>710</td> <td>\$31.36</td>	Music Directors and Composers	710	\$31.36
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Orthodontists         710         \$55.25           Paralegals and Legal Assistants         10,470         \$24.10           Payroll and Timekeeping Clerks         4,160         \$20.88           Pharmacists         6,800         \$55.17           Pharmacy Technicians         11,070         \$13.70           Photographers         1,760         \$15.87           Physical Therapists         7,180         \$36.84           Physician Assistants         1,350         \$34.59           Podiatrists         340         \$64.27           Private Detectives         800         \$21.76           Public Relations Specialists         4,870         \$32.30           Radio and Television Announcers         810         \$24.66           Reporters         1,160         \$23.44           Reporters         1,160         \$23.64           Reporters         4,950         \$33.29           Social and Human Service Assistants         5,750         \$14.17           Software Developers, Applications         21,170         \$40.82           Sound Engineering Technicians         350         \$27.26           Switchboard Operators, Including Answering Service         360         \$37.93           Service	Optometrists	1,010	\$50.34
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Pharmacists         6,800         \$55.17           Pharmacy Technicians         11,070         \$13.70           Photographers         1,760         \$15.87           Physical Therapists         7,180         \$36.84           Physician Assistants         1,580         \$37.98           Plumbers         11,350         \$34.59           Podiatrists         340         \$64.27           Private Detectives         800         \$21.76           Public Relations Specialists         4,870         \$32.30           Radio and Television Announcers         810         \$24.66           Real Estate Sales Agents         4,320         \$39.80           Registered Nurses         69,050         \$34.46           Reporters         1,160         \$23.64           Respiratory Therapists         2,760         \$27.35           Sales Representatives         49,570         \$33.29           Social and Human Service Assistants         5,750         \$14.17           Software Developers, Applications         21,170         \$40.82           Speech-Language Pathologists         4,900         \$37.93           Supervisors of Office Workers         29,980         \$27.26           Switchboard Operators, Includi	Payroll and Timekeeping Clerks	4,160	\$20.88
Pharmacy Technicians         11,070         \$13.70           Photographers         1,760         \$15.87           Physical Therapists         7,180         \$36.84           Physician Assistants         1,580         \$37.98           Plumbers         11,350         \$34.59           Podiatrists         340         \$64.27           Private Detectives         800         \$21.76           Public Relations Specialists         4,870         \$32.30           Radio and Television Announcers         810         \$24.66           Real Estate Sales Agents         4,320         \$39.80           Registered Nurses         69,050         \$34.46           Reporters         1,160         \$22.36           Sales Representatives         2,760         \$22.735           Sales Representatives         49,570         \$33.29           Social and Human Service Assistants         5,750         \$14.17           Software Developers, Applications         21,170         \$40.82           Sound Engineering Technicians         350         \$22.124           Speech-Language Pathologists         4,900         \$37.93           Supervisors of Office Workers         29,980         \$27.67           Switchboard O	Pharmacists	6,800	\$55.17
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	Veterinary Technologists and Technicians	1 870	\$14.46
VVED Developers 7.610 - \$31.89	Web Developers	2,610	\$31.89



Competence: Interpreting a data table. Addition, subtraction, multiplication with decimals.

#### Part 1. Earning Money

Job 1. Choose a job you'd like to have in the future--from the Chicago jobs table.

Job 2. What is another job that pays less?

How much more will you earn each hour in the job you chose than in job 2?

\_\_\_\_\_\_ = \_\_\_\_\_\_ = \_\_\_\_\_\_

Weekly Income: Most workers work 35 hours a week. How much would you earn each week if you had job 1?

Figure out the answer here.

Answer:

Annual Income: There are 52 weeks in a year. Estimate how much money you would earn in that job in a year.

\$\_\_\_\_\_

#### Part 2. Your Own Word Problem

Make up a word problem. In your problem, use real numbers from the table. Make the problem about how much more one worker earns than another. *You can make it an algebra problem!* 

#### **Multiple Choice Question Maker**

Question Maker: Write a challenging question here. Make it a WORD problem.



Write the correct answer and three other possible answers here:

a.	b.
С.	d.

## **Problem Solver:**

What's the best answer?

Tell how to figure that out.

¢



## Chicago Math TASK GUIDE 2

Competence: Interpreting a data table. Multiplying decimals. Multiplying with percentages.

Some workers do not work a full work week. They work part time.

Choose four jobs you would like to have while you are going to college. You can work 20 hours a week in the job to earn money to pay your tuition.

Job	Hourly Wage	Weekly Earning

Choose the one job you would want to do the most.

Good news! You do a great job. Your supervisor gives you a raise of 5%.

What will you earn then?

Hourly wage: \_\_\_\_\_

Weekly wage: \_\_\_\_\_

#### Added Challenge: Make Your Own Word Problem

Make up a word problem.

In your problem use real numbers from the table.

#### CHICAGO MATH TASK GUIDE 3

Competence: Calculating Area.

Multiplying cost per square foot to determine total cost. Subtracting areas. Calculating cost of materials plus wages.

You're a landscaper.

You get an order to put sod into a playground. Sod is grass. It comes in rolls of grass that you will unroll and lay out to cover the playground.

The playground dimensions are: 15 yards wide by 36 yards long. Draw a diagram here showing the playground.

How many square feet are in the playground?

You go to Home Depot to get the sod. They tell you that you can buy it in pallets. The sod comes rolled up on a board called a pallet. Each pallet holds 500 total square feet. Each pallet of sod costs \$360.00.

How many pallets of sod do you need?

You estimate that it will take you 32 hours to unroll the sod and water it and make sure it is set up well. How much will you charge **for your labor** and **the sod**?

\$\_\_\_\_\_

You figure out that you will have extra sod left. Figure it out here.

How much sod will be left over? \_\_\_\_\_\_square feet

Extra Challenge: Make a math word problem of your own for another landscape project.

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## Task 4: I Can Analyze Relative Quantities with a Bar Graph

Choose five different jobs and show how many people work in those jobs in the Chicago area.

#### Title of the Graph: \_\_\_\_\_

i									
1									
1									
1									
	1			1	1				

#### **Analyze Patterns and Relationships**

Explain the patterns or relationships it shows—or give it to another student and ask that student to explain it.

Ask a question based on the graph.

 $\Box$ 

## CHICAGO MATH TASK GUIDE 5 Jobs can grow!

Competence: Multiplying with Percentages

The economy can change based on what jobs people need.

Choose three jobs that you think will increase in the Chicago area and tell one reason you think each will increase.

Job Category	Why I think it will increase.	How many there will be in 2020 if there is a 7% increase.

Then predict what the number of workers in those jobs will be in 2020 if there is a 7% increase in the number of jobs in those categories.

Another thing that could happen to get more people to do that kind of work is a raise in salary. This is a challenging task: Figure out what one of those workers would earn if there is a raise in salary for that kind of job of 5%, 8%, and 12%.

Job Category: _			

Hourly Wage with an increase by 5% \_\_\_\_\_

Hourly Wage with an increase by 8% \_\_\_\_\_

Hourly Wage with an increase by 12% \_\_\_\_\_

Added Challenge: Make up a math problem about percentage changes in what a worker earns.

## **STREAM IT**

You'll use science, technology, reading, engineering, art, and math to design a great new...birdhouse, bridge, playground, park, car—anything you want to design.

Choose something you'd like to design.

List what you want it to look like and the parts you'll include.

Read about this kind of thing—use the Internet to find examples.

Look at your list and add more to it based on what you read.

Then design it—make a blueprint.

Go farther—make a model!

 $\Rightarrow \Rightarrow \Box$ 

## **Online Math Resources for Students**

Useful Online Resources Available at No Cost

#### Math Practice Resources and Games

To achieve success with Common Core standard 1—make sense of problems, then solve them persistently, students need math skills.

The key to getting skills is practice.

The key to keeping skills is using them to solve problems.

Here are free useful math sites you can use to help students practice math skills and then solve realistic problems.

#### **Early Childhood Games**

http://www.ictgames.com/resources.html

#### Infants and Toddlers

https://www.pbs.org/parents/earlymath/

#### **Primary Games from Public Television**

http://pbskids.org/games/math/

#### Math Games for Grades 3-5

http://pbskids.org/cyberchase/math-games/

#### Advanced Challenges from the Museum of Math

http://momath.org/activities/

#### Activities for After-School Programs from the Exploratorium

http://www.exploratorium.edu/education/publications/math-explorer

Lots of activities that will help your child practice math skills. http://resources.woodlands-junior.kent.sch.uk/maths/

#### Great games to practice math facts.

http://www.maths-games.org

#### Math Hunt

With the help of the character "Number Cruncher" scour the web to find social studies and science information to help crack math problems. http://teacher.scholastic.com/mathhunt/

#### Math Maven's Mysteries

Use math to help crack open mystery cases <a href="http://teacher.scholastic.com/maven/">http://teacher.scholastic.com/maven/</a>



### **Counting/Number Activity Sites**

#### **Bobbie Bear**

Use counting strategies to make as many outfits for Bobbie Bear as you can, using different colored shirts and pants.

http://illuminations.nctm.org/ActivityDetail.aspx?ID=3

#### Chairs

Explore the number of chairs needed when tables are arranged in a restaurant. http://illuminations.nctm.org/ActivityDetail.aspx?ID=144

#### **Electronic Abacus**

Explore an abacus model for representing numbers and performing addition. http://illuminations.nctm.org/ActivityDetail.aspx?ID=8

### **Operations Activity Sites**

#### Around the World in 80 Seconds

Help Maggie fly around the world. Pick addition, subtraction, multiplication, division or a mix of all four. Each question answered correctly gets Maggie to her next stop. http://teacher.scholastic.com/activities/adventure/math2.htm

#### **Deep Sea Duel**

Play a strategy game that requires you to select cards with a specified **sum** before your opponent.

http://illuminations.nctm.org/ActivityDetail.aspx?ID=207

#### **Determine the Missing Operation Study Jams**

Sometimes to solve a word problem or story problem, you need to figure out which symbol to use. Follow this step-by-step strategy http://studyjams.scholastic.com/studyjams/jams/math/algebra/adetermine-missingoperation.htm

#### Dude's Dilemma

Help rescue Maggie's dog, who is trapped on a rooftop! You can rescue him by answering a few math questions. Pick addition, subtraction, multiplication, division or a mix of all four.

http://teacher.scholastic.com/activities/adventure/math1.htm

#### Factor Game

A game that exercises your factoring ability. Test your skills against a human or the computer.

http://illuminations.nctm.org/Lesson.aspx?id=2069



### **More Operations Activity Sites**

#### Factorize

Divide numbers into two factors, and build arrays to represent each factorization. http://illuminations.nctm.org/Activity.aspx?id=3511

#### **Flashcards for Basic Arithmetic**

Flashcards for all operations, organized by level. http://free-ed.net/sweethaven/Math/arithmetic/arithDrill02.asp

#### **Operations with Signed Numbers**

Use these "flash cards" to work with an endless list of signed-number problems-addition, subtraction, multiplication, and division of both positive and negative numbers. <u>http://www.free-ed.net/sweethaven/Math/arithmetic/SignedValues01\_EE.asp</u>

#### **Operations with Whole Numbers**

A complete set of activities featuring arithmetic operations with whole numbers. Activities can be assigned according to level of difficulty as well as special features such as division with/without remainders.

http://free-ed.net/sweethaven/math/pre-algebra/prealg01/ee/wholenuml02\_ee.asp

#### **Order of Operations with Integers**

This is a set of endless drills that build confidence with solving integer operations that involve combinations of addition, subtraction, multiplication, and division. There are four levels of difficulty.

http://www.waybuilder.net/sweethaven/Math/prealgebra/PreAlg01/ee/IntegerPrec01\_EE.asp

#### **Periods of Place Values**

Rewrite numbers separating each period of place values with a comma <a href="http://www.waybuilder.net/sweethaven/Math/pre-algebra/drills/wholeNums01.asp">http://www.waybuilder.net/sweethaven/Math/pre-algebra/drills/wholeNums01.asp</a>

#### **Primary Krypto**

Use five number cards and arithmetic operations to create the "target" number in this fun math game.

http://illuminations.nctm.org/ActivityDetail.aspx?ID=173

#### Product Game

Exercise your skill with factors and multiples. http://illuminations.nctm.org/ActivityDetail.aspx?ID=29

#### **Times Table**

Practice multiplying single-digit numbers with this interactive multiplication table. <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=155</u>

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## ⇔⇔

### Time, Speed, and Distance Activity Sites

#### **Distance to Horizon**

Investigate the relationship between your height above the Earth and the distance you can see to the horizon. http://illuminations.nctm.org/ActivityDetail.aspx?ID=150

Sound Sketch Tool

Sketch and quantify sound using two different representations. <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=36</u>

#### Vector Investigation: Boat to the Island

Adjust the magnitude and direction of a velocity vector to "drive" a boat. <u>http://illuminations.nctm.org/Activity.aspx?id=3536</u>

#### Word Problems: Time, Speed, and Distance

Practice your knowledge of time, speed, and distance with word problems <a href="http://www.waybuilder.net/sweethaven/Math/pre-algebra/dstProblems01.asp">http://www.waybuilder.net/sweethaven/Math/pre-algebra/dstProblems01.asp</a>

## **Probability Activity Sites**

#### Adjustable Spinner

Create a spinner and examine the experimental and theoretical outcomes for a specified number of spins. http://illuminations.nctm.org/ActivityDetail.aspx?ID=79

#### Fire

Simulate the spread of a wildfire using a probability applet. <a href="http://illuminations.nctm.org/ActivityDetail.aspx?ID=143">http://illuminations.nctm.org/ActivityDetail.aspx?ID=143</a>

#### Random Drawing Tool—Individual Trials

Explore the relationship between theoretical and experimental probabilities. http://illuminations.nctm.org/ActivityDetail.aspx?ID=67

### Fractions, Decimals, and Percentages Activity Sites

#### Concentration

Play a matching game with different representations of equivalent items — match quantities to their numerals, shapes to their names, or fractions to decimals and percents. http://illuminations.nctm.org/ActivityDetail.aspx?ID=73

#### **Equivalent Fractions**

Create equivalent fractions by shading squares and circles. http://illuminations.nctm.org/ActivityDetail.aspx?ID=80

#### **Fraction Game**

Explore relationships among fractions while playing this interactive game. <u>http://illuminations.nctm.org/Activity.aspx?id=4148</u>

#### **Fraction Model**

Explore different representations for fractions. http://illuminations.nctm.org/Activity.aspx?id=3519

#### Fractions, Fractions, Fractions

This is version 2.0 of the popular fractions "flash cards." Fractions are learned by looking at a lot of examples and they are mastered by doing a lot of problems. <u>http://edgeroamer.com/sweethaven/math/ee/fracs03.asp</u>

#### **Fractions Study Jams**

Watch a video and take a quiz about understanding fractions http://teacher.scholastic.com/activities/studyjams/fractions/

#### Free Ride

Use this applet to explore fractions using the context of a bicycle and gear ratios. <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=178</u>

#### **Mastering Decimal Fractions**

This is a complete set of endless drills with decimal arithmetic. You can select among 24 different activities that are arranged according to type of operation and level of difficulty. <u>http://www.waybuilder.net/sweethaven/Math/pre-algebra/Decimals01\_EE.asp</u>

#### **Rounding Decimal Fractions**

Activities for practice of rounding decimal fractions http://www.sweethaven.com/sweethaven/Math/pre-algebra/PreAlg01/ee/DecRound01\_EE.asp

#### **Working with Percents**

Practice percent problems, converting between decimals and percents, and determining parts and rates

http://www.waybuilder.net/sweethaven/Math/pre-algebra/PreAlg01/ee/Percent01\_EE.asp



### **Geometry Activity Sites**

#### Angle Sums

Explore the sum of the interior angle measures for various polygons. http://illuminations.nctm.org/ActivityDetail.aspx?ID=9

#### Area Tool

Investigate how changes in the base and height of trapezoids, parallelograms, and triangles affect their area. http://illuminations.nctm.org/ActivityDetail.aspx?ID=108

#### Circle Tool

Compare the circumference and area of a circle to its radius and diameter. <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=116</u>

#### **Cube Nets**

Examine various two-dimensional figures to determine which ones can be folded into a cube.

http://illuminations.nctm.org/ActivityDetail.aspx?ID=84

#### Computing Pi

Compare two methods for computing pi. http://illuminations.nctm.org/ActivityDetail.aspx?ID=161

#### Cubes

Determine the volume of a box by filling it with cubes, rows of cubes, or layers of cubes. http://illuminations.nctm.org/ActivityDetail.aspx?ID=6

#### **Fractal Tool**

Explore iteration and patterns in shapes and numbers with fractals. <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=17</u>

#### **Geometric Solids**

Manipulate various geometric solids. Color the solid to investigate properties such as the number of faces, edges, and vertices. http://illuminations.nctm.org/ActivityDetail.aspx?ID=70

#### Interactive Geometry Dictionary: Areas in Geometry

Understand and investigate the area of the rectangle, parallelogram and triangle. <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=21</u>

#### Patch Tool

Design a pattern using geometric shapes. http://illuminations.nctm.org/ActivityDetail.aspx?ID=27

#### Perimeter, Area, and Volume of Common Geometric Figures

http://www.waybuilder.net/sweethaven/Math/pre-algebra/PreAlg01/ee/geometry/PreGeom01\_EE.asp



#### More Geometry Activity Sites

#### **Proof Without Words: Pythagorean Theorem**

Watch a dynamic, geometric "proof without words" of the Pythagorean Theorem. http://illuminations.nctm.org/ActivityDetail.aspx?ID=30

#### Scale Factor

A common misconception is that when the dimensions of an object are doubled, the area is doubled, too. But this is not true! Use this applet to investigate how changes in the scale factor influence the ratio of perimeters and the ratio of areas between two figures.

http://illuminations.nctm.org/ActivityDetail.aspx?ID=176

#### Shape Cutter

Draw and cut shapes, then use slides, turns, and flips to move the cut pieces around. <a href="http://illuminations.nctm.org/ActivityDetail.aspx?ID=72">http://illuminations.nctm.org/ActivityDetail.aspx?ID=72</a>

#### Shape Sorter

Sort shapes according to their properties using Venn diagrams. http://illuminations.nctm.org/ActivityDetail.aspx?ID=34

#### Shape Tool

Draw, color, paste, slice, rotate, reflect, expand, and contract various shapes. <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=35</u>

#### **Tessellation Creator**

Create patterns to cover the screen using regular polygons. http://illuminations.nctm.org/ActivityDetail.aspx?ID=202

#### Turtle Pond

Estimate length and angle measure while guiding a turtle to a pond. http://illuminations.nctm.org/ActivityDetail.aspx?ID=83

### **Graphing Activity Sites**

#### **Bar Grapher**

Create a customized bar graph with your own data, or display a bar graph from an included set of data.

http://illuminations.nctm.org/ActivityDetail.aspx?ID=63

#### **Box Plotter**

Create a customized box plot with your own data, or display a box plot of an included set of data.

http://illuminations.nctm.org/ActivityDetail.aspx?ID=77

#### **Circle Grapher**

Create a customized circle graph with your own data, or display a circle graph from an included set of data. http://illuminations.nctm.org/ActivityDetail.aspx?ID=60

#### Histogram Tool

Create a customized histogram with your own data, or display a histogram from an included set of data.

http://illuminations.nctm.org/ActivityDetail.aspx?ID=78

#### Introduction to Graphing

Here is a selection of graphic activities, from plotting points to plotting linear equations. <u>http://www.free-ed.net/sweethaven/Math/GraphOps/GraphPlotters/graphing02\_EE.asp</u>

#### Isometric Drawing Tool

Create dynamic drawings on isometric dot paper. Draw figures using edges, faces, or cubes, and then shift, rotate, color, decompose, or view them in 2-D or 3-D. http://illuminations.nctm.org/ActivityDetail.aspx?ID=125

#### Line of Best Fit

Use this applet to plot a set of data and determine a line of best fit. <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=146</u>

#### **Linear Regression**

Investigate a regression line and determine the effects of adding points to a scatterplot. <u>http://illuminations.nctm.org/ActivityDetail.aspx?ID=82</u>

#### Mean and Median

Investigate the mean, median, and box-and-whisker plot for sets of data that you create. http://illuminations.nctm.org/ActivityDetail.aspx?ID=160

#### State Data Map

Use color-coding to represent state information, such as population, area, and gasoline usage.

http://illuminations.nctm.org/ActivityDetail.aspx?ID=151

## **Probability Activity Sites**

#### Adjustable Spinner

Create a spinner and examine the experimental and theoretical outcomes for a specified number of spins. http://illuminations.nctm.org/ActivityDetail.aspx?ID=79

Fire

Simulate the spread of a wildfire using a probability applet. http://illuminations.nctm.org/ActivityDetail.aspx?ID=143

#### Random Drawing Tool—Individual Trials

Explore the relationship between theoretical and experimental probabilities. http://illuminations.nctm.org/ActivityDetail.aspx?ID=67

## **Algebra Activity Sites**

#### **Algebraic Transformations**

Explore commutativity and associativity within a geometric situation. http://illuminations.nctm.org/ActivityDetail.aspx?ID=193

#### Pan Balance—Expressions

Investigate the concept of equivalence by "weighing" numeric and algebraic expressions.

http://illuminations.nctm.org/Activity.aspx?id=3529

#### Pan Balance—Numbers

Find equivalent numerical expressions using a balance scale. http://illuminations.nctm.org/Activity.aspx?id=3530

#### **Roots and Powers**

Some problems require the aid of a calculator, while others encourage the learner to work the problem "on paper." http://www.free-ed.net/sweethaven/Math/pre-algebra/RootPow01 EE.asp

#### Solving Linear Equations in One Variable

A list of activities for solving linear equations in one variable for independent learners http://www.waybuilder.net/sweethaven/Math/algebra/linearEq/LinEqOne01\_EE.asp

Advanced Math—Algebra http://www.shodor.org/interactivate/activities/

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## **Common Core Reading**

## Requires

# **Greater Thinking.**

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## Focus on Ideas

Reading Anchor Standard 2: Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.

	READING NONFICTION/INFORMATIONAL TEXT
К	With prompting and support, identify the <b>main topic</b> and <b>retell key details</b> of a text.
1	Identify the main topic and retell key details of a text.
2	Identify the <b>main topic</b> of a multiparagraph text as well as the <b>focus</b> of specific paragraphs within the text.
3	<b>Determine</b> the <b>main idea</b> of a text; recount the <b>key details</b> and <b>explain</b> how they <b>support</b> the <b>main idea</b> .
4	Determine the main idea of a text and explain how it is supported by key details; summarize the text.
5	<b>Determine</b> two or more <b>main ideas</b> of a text and <b>explain</b> how they are <b>supported</b> by <b>key details</b> ; <b>summarize</b> the text.
6	<b>Determine</b> a <b>central idea</b> of a text and how it is <b>conveyed</b> through particular details; provide a <b>summary</b> of the text distinct from personal <b>opinions</b> or judgments.
7	<b>Determine</b> two or more <b>central ideas</b> in a text and <b>analyze</b> their <b>development</b> over the course of the text; provide an objective <b>summary</b> of the text.
8	<b>Determine</b> a <b>central idea</b> of a text and <b>analyze</b> its <b>development</b> over the course of the text, including its <b>relationship</b> to <b>supporting ideas</b> ; provide an objective <b>summary</b> of the text.
9-10	<b>Determine</b> a <b>central idea</b> of a text and <b>analyze</b> its <b>development</b> over the course of the text, including how it emerges and is shaped and refined by specific details; provide an objective <b>summary</b> of the text.
11-12	<b>Determine</b> two or more <b>central ideas</b> of a text and <b>analyze</b> their <b>development</b> over the course of the text, including how they interact and build on one another to provide a complex <b>analysis</b> ; provide an objective <b>summary</b> of the text.

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## ANALYZE RELATIONSHIPS

Reading Anchor Standard 3: Analyze how and why individuals, events, and ideas develop and interact over the course of a text.

	READING NONFICTION/INFORMATIONAL TEXT
K	With prompting and support, <b>describe</b> the <b>connection</b> between two
	individuals, events, ideas, or pieces of information in a text.
1	<b>Describe</b> the <b>connection</b> between two individuals. <b>events</b> . <b>ideas</b> . or pieces
	of information in a text.
2	<b>Describe</b> the <b>connection</b> between a series of historical <b>events</b> , scientific
	ideas or concepts, or steps in technical procedures in a text.
3	<b>Describe</b> the <b>relationship</b> between a series of historical <b>events</b> , scientific
	<b>ideas</b> or <b>concepts</b> , or steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect.
4	Explain events, procedures, ideas, or concepts in a historical, scientific, or
	technical text, including <b>what happened and why</b> , <b>based on specific</b> <b>information</b> in the text.
5	<b>Explain</b> the <b>relationships</b> or interactions between two or more individuals
	events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.
6	Analyze in detail how a key individual. event. or idea is introduced, illustrated.
	and elaborated in a text (e.g., through examples or anecdotes).
7	Analyze the interactions between individuals, events, and ideas in a text
	(e.g., how <b>ideas</b> influence individuals or <b>events</b> , or how individuals influence <b>ideas</b> or <b>events</b> ).
8	Analyze how a text makes connections among and distinctions between
	individuals, ideas, or events (e.g., through comparisons, analogies, or
	categories).
9-10	Analyze how the author unfolds an analysis or series of ideas or events,
	including the <b>order</b> in which the points are made, how they are <b>introduced</b>
	and developed, and the connections that are drawn between them.
11-12	Analyze a complex set of ideas or sequence of events and explain how
	specific individuals, ideas, or events interact and develop over the course of

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## Reading = Thinking Explore to Learn More



### Choose any animal.

Figure out how one of its parts helps it live—move, get food, or escape predators. Look at the shapes. For example, flat feet—how does that help the rhinoceros? Then figure out how another of its parts helps it survive.

# You have just been thinking about a Cross Cutting Science Concept: Structure and Function!

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## **READ THOUGHTFULLY**

## You can answer these questions about any story you read <u>or a story you watch on TV.</u> If you ask these questions while you watch a story on TV, during the commercials add this question: *What do you think will happen next?*



### After you read (or watch) the story: What is your favorite part? Why do you like it?

### What do you think happens next—after the story ends? Why do you think that will happen?

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#### Fable: The Tortoise and the Hare Adapted from the Traditional

A fable is a story with animals instead of people in it, and the story teaches a lesson. Here is the story. It includes a rabbit and a turtle. When you finish reading it, figure out what the lesson it teaches is and why the writer used a rabbit and a turtle to teach that lesson.

The Rabbit was boasting of his speed. "I have never yet been beaten," said he, "when I run as fast as I can. I challenge any one here to race with me. I am the best."

The Turtle said quietly, "I accept your challenge. I am tired of your bragging. I believe that I can beat you."

"That is a good joke," said the Rabbit. "I could dance around you all the way. You will never be able to speed past me. You will not win. What a foolish turtle."

"Keep your boasting till you've beaten me," answered the Turtle. "Shall we race? I know that I can win."

So they set up the race. It would follow a curved path along a hill with rocky ground, trees, and bushes.

The Rabbit rushed off speedily, but soon stopped and, believing that the Turtle could never catch him, lay down for a nap by some bushes at the top of the hill. The Turtle never stopped, but went on with a slow and steady pace straight to the end of the race.

When the Rabbit woke from his nap, he looked down and saw the Turtle was at the finish line. The Rabbit ran as fast as he could, but it was too late. He heard the other animals cheering. The Rabbit said, "I've learned a lesson. I will not boast again."

#### READ CAREFULLY

What do you know about the place? What words tell about it? What do you know about the characters? What choices do characters make? What are the most important events in the story? How does a character change in the story?

THINK MORE

Draw pictures to show the parts of the story: where it takes place; the characters; the important events.

## This picture/map shows Chicago in 1831.

View of Chicago in 1831 by Barber and Howe, 1865. Source: http://commons.wikimedia.org/wiki/File:Chicago\_1831\_Barber\_1865p286.jpg

## What challenges did pioneers face in Chicago then?



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## Choices

You're a person moving to Illinois from the East in 1831. There are no big stores, no highways or automobiles; there is no electricity. Choose **just five of thes**e things to take with you to help you set up your home.

What I'll Bring	Why—Based on the MAP
potatoes	
bucket	
bowl	
coffee beans	
hammer	
knife	
flour	
first aid kit	
lantern	
shovel	
axe	
fishing rod	
guitar	

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What five things would a family moving to Chicago today need to bring?

This activity is based on a Chicago History Museum project by Jeanine Stec.

## **Pioneer's Challenges**

Infer traits (CCSSR1), analyze ideas (CCSSR2)

Many pioneers came to Illinois to farm. They found the land difficult to plant because of the thick grass root system--the area was mostly an open grassland. When settlers came, they traded goods with the Potawatomi to get food and animal skins. After a time, the Potawatomi were forced to move when homesteaders took over the land. The Potawatomi asked that they could stay "on the land given to us by the great spirit," but they could not continue to live here. By 1831, they had to move. They no longer would be able to trade with the settlers.

#### Here is what one woman's life was like in early Chicago.

The woman told me that they spun and wove all the cotton and woolen garments of the family, and knit all the stockings; her husband, though not a shoe-maker by trade, made all the shoes. She made all the soap and candles they used, and prepared her sugar from the sugar-trees on their farm. All she wanted with money, she said, was to buy coffee and tea, and she could "get enough any day by sending a batch of butter and chicken to market."

They used no wheat, nor sold any of their corn, which though it appeared a very large quantity, was not more than they required to make their bread and cakes of various kinds, and to feed all their livestock during the winter."

#### Here are problems the settlers faced each season:

Fall—the threat of fire—the prairie grass became very dry and a spark could start a fire that would burn the prairie and their cabin

Winter—freezing cold, deep snow, people got lost in the drifts when the trails were covered Spring—the prairie became swampy when the snow melted

Summer—some days were very hot and there was no shady forest to cool yourself; there were so many insects that sometimes horses died from being stung so much.

- What are 5 important challenges the pioneers faced? Make a list of 5 challenges and put the number of your challenge next to the paragraph that tells about it.
- What traits would the pioneers need? List three traits and use examples from the reading to support your inference.
- What is the central idea of this passage? Underline the evidence for your conclusion.
- Constructed Response: What would a pioneer have written in a letter to relatives in a city in the East? Choose one of these ideas to explain: Chicago is a place of challenges or Chicago is a place of possibilities. Use examples from your reading to support your idea in the letter.

## What would a pioneer need to bring to live in Chicago then?

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# Students develop more literacy abilities when they can choose their activity.

This list is intended to inspire creative thinking by students.

## Choose one of these projects. You can collaborate!

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### **Story Writer** Students learn more about reading a story if they write one!

Write a story that teaches a lesson. For example, the story "The Little Engine that Could" teaches that if you believe in yourself and try hard you can do great things. Decide what lesson you want people to learn from your story. Then plan it.

The Lesson My Story Will Teach: \_\_\_\_\_

Who will be in your story?

What will happen?

First: \_\_\_\_\_

Then: \_\_\_\_\_\_

Then: \_\_\_\_\_

Then:

How will your story end?

Write your story! It can be a cartoon, a play, or a booklet you illustrate.

## **Poem Interpreter**

This page develops CCSSR Anchor Standard—Key Ideas and Information: 2. Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas. The next page develops the analysis of author's craft and structure.

A poet is like a painter. The poet uses words to help you understand a theme or message.

Poem: \_\_\_\_\_

What do you like most about this poem?

Draw a picture to illustrate the poem. Show what you think the poet's message is.

✓ What is the theme of the poem—what is the poet's message?

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## Design a Powerful Poem

Common Core Writing Standard 2. Write **informative/explanatory** texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.

Theme:

### Show your idea in a picture.

Plan your poem here. Writing a poem is like painting. You start with a sketch. Then you think of things to add to help make your idea clear. List ideas and examples you will include in your poem.

Then write your poem. Make it powerful!



## ANALYZE A Story

CCSSR: 1-read carefully, then infer; 3-analyze events; 2-figure out the theme

Draw or describe the setting.

Decide who the most important characters are. Tell about two of them in this chart.

Character	Traits	Evidence

List the three most important events in the story.

Event	Why It Is Important	Why the Writer Included It

What is the theme of the story?

## Plan your story!

CCSSW 3 Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details and well-structured event sequences.

What is the message or theme-what do you want the reader to understand?

Describe the Setting with at least 2 details:

Main Characters: Describe two important characters.

Character	List at least two traits

Challenge: What problem will the characters face?

Response: How will the characters resolve it?

How will the main character change, or what will that character learn?

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b beginning/exposition r rising action c climax f falling action e end/resolution

What happens? In just a few words tell the plot. Be sure to use the events to help your reader understand the theme.

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How does your plot communicate the theme?

Who will narrate?

Why did you choose that narrator?

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## Write a Play to Communicate the Theme of a Story

CCSSW3 and 4—organize a narrative

You can use this guide to create a play based on a story. You can use it to create YOUR OWN play—about your own ideas.

Story:	
What happens—list the important events.	
How it starts:	
What happens next?	
What happens next?	
What happens next?	
How it ends.	
What's the <b>theme</b> ?	

Who are the important characters?

Who	Traits

Dialogue: Write what characters say.

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Keep writing—use more pages to tell the story as a play.

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## Free Valuable Online Reading Resources

#### 25 Activities for Reading and Writing Fun (Reading Rockets Web Site)

http://www.readingrockets.org/article/392/

"Fun" is the key word in this selection of 25 reading and writing activities for families with children (infants to sixth grade).

#### Between the Lions

http://pbskids.org/lions/index.html This website is designed for parents and kids to surf together. Stories from the popular PBS show are posted online with links to associated games.

#### International Children's Digital Library (ICDL)

http://en.childrenslibrary.org/ Currently, the collection includes materials donated from 27 cultures in 15 languages.

#### Character Scrapbook (K-8)

Children can analyze the characters in any book, as well as print and collect scrapbook pages.

http://teacher.scholastic.com/activities/scrapbook/index.htm

#### Let the Show Begin! Literary Talent Show (Grades K-6)

Children choose their favorite songs, poems, or stories to act out in a talent show for friends and family.

http://www.readwritethink.org/parent-afterschool-resources/activities-projects/show-begin-literary-talent-30609.html

#### Share What You're Reading (Grades 1-12)

Share what you are reading with other students and discover new books http://teacher.scholastic.com/activities/swyar/index.asp

#### Library in the Sky

http://www.libraryinthesky.org/

Containing over 15,000 links to educational resources on the Internet, this site guides teachers, students, parents, librarians, and members of the community on their journeys through cyberspace.

#### **RIF Reading Planet**

http://www.rif.org/kids/readingplanet.htm

RIF Reading Planet is a place where kids and families come together to explore the world of books. Grown-ups can browse through a universe of activities and ideas for motivating kids to read. Kids can post reviews of favorite books and participate in interactive games and activities.

#### Word Central

http://www.wordcentral.com/ Merriam-Webster's site just for kids features the "Daily Buzz Word", spelling bee quizzes, student dictionaries, and "Build Your Own Dictionary."