While we are waiting to begin!
How Can I Best support my Child in Math?

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Goals for Tonight

STRATEGIES

RESOURCES

QUESTIONS AND ANSWERS
What's the best deal?

- Coffee is sold in the following sizes and prices:
  - small 10 oz $1.64
  - medium 14 oz. $1.99
  - large 20 oz. $2.30
  - x-large 24 oz. $2.60

- Which size coffee is the best price? Solve and explain your thinking.
What do you notice?
What do you wonder?

HOT COFFEE SIZES

SM 10oz $1.64
MED 14oz $1.99
LG 20oz $2.30
X-LG 24oz $2.60
What do you notice?
What do you wonder?
The Importance of Math in 2019
Future of Jobs World Economic Forum: 2018

- Analytical thinking and innovation
- Active learning and learning strategies
- Creativity, originality, and initiative
- Technology, design, and programming
- Critical thinking and analysis
- Complex problem solving
- Leadership and social influence
- Emotional Intelligence
- Reasoning, problem solving and ideation
- Systems analysis and evaluation
Growth Mindset

Suggestions and resources
Jo Boaler - Growth Mindset

- Math Today
- See Parent Resources and student resources at
- www.youcubed.org
6 Ways to Help Your Child

• Play
• NOT speed
• **Encourage** number sense
• Never share with your children that you were bad at math or that you dislike it.
• Be encouraging with your child when they make a mistake “Oh, I see what you are thinking.”
• Growth mindset: let students know that they have unlimited math potential and that being good at math is all about working hard.
Let’s Play!
math 4 love

[Link to Math for Love lesson plan]
Odd Tic Tac is another game for two players similar to Tic Tac Toe. Find out if the strategies for play are the same. Using a 3 by 3 grid, one player writes O's and the other 1's taking it in turns. To win you have to complete a line with an odd total.
Making Sense of Problems
Nix the Tricks!

• https://robertkaplinsky.com/how-old-is-the-shepherd/
Dog Years

• It is said that dogs age seven years for every "people year."
• Mason's dog, Shep, was born on Mason's eighth birthday.
• When Mason was nine years old, Shep was seven dog years old.
• In dog years, how old will Shep be on Mason's twelfth birthday?
  • Show all your mathematical thinking.
Visualizing Story Problems

Story Problem: ____________________________________________________________

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Equation: ________________________________

Answer in a sentence: ________________________________
Homework
When You:
Cut it for me,
Write it for me,
Open it for me,
Set it up for me,
Draw it for me or
Find it for me,

All I learn is:
that you do it better than me
Helping with Math Homework

When your child is getting started:
- Provide a well lit and comfortable place for your child. ASK...
- What do you need to find out? Can you estimate the answer?
- Would you like to read the problem together to be sure you understand what it’s asking.
- Can you show me an example of this kind of problem in your book?

While your child is working, ask:
- How can you organize your information? Will a list or table help?
- Would it help to draw a picture of the problem or use counters?
- What could you do next? Do you see any patterns?
- (If your child seems frustrated..) Ask your child if they need a 10 minute break.

When your child finds an answer, ask:
- How did you get your answer? Do you think it’s right? Tell me more.
- If your child seems puzzled, ask him or her to tell you what doesn’t make sense. Or…
- Explain why your answer makes sense.
Home Math Toolbox

- Ruler
- Cardboard or plastic box
- Sharpened pencils
- Pencil-sharpening tool
- Counters
- Scratch paper
- Solar-powered pocket calculators
- Plastic or metal protractor
- Compass for drawing
- Glue Stick
- Eraser
Help your child with time management. Establish a set time each day for doing homework. Don’t let your child leave homework until just before bedtime.

Be positive about homework. Tell your child how important school is. The attitude you express about homework will be the attitude your child acquires.

When your child asks for help, provide guidance, not answers. Giving answers means your child will not learn the material. Too much help teaches your child that when the going gets rough, someone will do the work for him or her.

If homework is meant to be done by your child alone, stay away. Too much parent involvement can prevent homework from having some positive effects. Homework is a great way for kids to develop independent, lifelong learning skills.

Stay informed. Talk with your child’s teacher. Make sure you know the purpose of homework and what your child’s class rules are.

Help your child figure out what is hard homework and what is easy homework. Have your child do the hard work first. This will mean he will be most alert when facing the biggest challenges. Easy material will seem to go fast when fatigue begins to set in.
Help with Questions not answers

What is the goal of the problem?

Why does that step work?

Why would we want to do that next?

What does this step in the process accomplish?

How do you know if your answer is reasonable?

Can you check your work to make sure it makes sense to you?
Summarizing

- FUN
- Encouragement
- Growth Mindset
- Sense Making
- Notice / Wonder
- Visualization
- Homework routine
- Supply questions not answers
Take-away Resources
## Math Websites

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Parent Information Resources

- [https://www.youcubed.org/resource/parent-resources/](https://www.youcubed.org/resource/parent-resources/) - Jo Boaler / Growth Mindset


- [https://mathforlove.com/lesson-plan](https://mathforlove.com/lesson-plan) - math 4 love

- [https://nrich.maths.org/9086](https://nrich.maths.org/9086) - math puzzles
We are all in this together!

- You are their primary educator and when families and schools work as a team, with understanding and mutual respect, children learn best!
- Thank you!
- Questions?