Fourth Grade Number Talks

1 + 1
2 < 20
0.25 = 1/4
1/2 = 2/4
Number Talk Videos
**Topic:** Launching Number Talks with Fourth Graders

**Description:** This 12:25 minute video demonstrates how to begin number talks in a fourth grade classroom. Notice how the teacher clearly communicates expectations for the students.

**Link:**
https://youtu.be/aVD2zKE5AoY

**Curriculum Connection:** Building Classroom Community
Description: Watch this 2:52 minute video to see how one student brainstormed her thoughts on number talks. She incorporated her ideas into a frayer chart that defined a number talk, listed strategies used during a number talk, and gave examples and non-examples.

Link: https://youtu.be/XBSLYQ3wdgY

Curriculum Connection: Building Classroom Community
**Topic:** Fourth Grade Number Talks - Student Justification

**Description:** This 2:38 minute video demonstrates a high level of student engagement during number talk. Notice how students are able to add on to each other’s thinking during the discussion. Also, the hand gestures indicate norms have been established as a part of the procedure.

**Link:** [https://youtu.be/JGmgrg9oATE](https://youtu.be/JGmgrg9oATE)

**Curriculum Connection:** Building Classroom Community, NC.4.NBT.4
Description: View this 2:58 minute video to see fourth graders using mental math to add 39+35. Note the systems in place that promote productive discussions among students.

Link: https://youtu.be/kkwfmSa3n9w

Curriculum Connection: NC.4.NBT.4
Description: View this 1:16 minute video to see six fourth grade students discuss why they value number talks.

Link: https://youtu.be/NqjS3WC73Y8
Number Talk Photographs
When developing expectations for your Number Talk lesson, it is important for students to have a way to communicate their thoughts with the teacher without distracting others who are still thinking. These hand symbols are effective ways to allow students to be engaged throughout the lesson.

**Hand Symbols**
- 🤔: I'm still thinking.
- ✌️: I have an answer and a strategy.
- 🤔👍: I have more than one strategy.
- 🤔👍👍: I agree.

**Curriculum Connection:** Building Classroom Community
**Topic:** Anchor Chart for Addition Strategies

**Description:** Developing strategy anchor charts for different operations is an effective way to preserve student thinking to be used during other portions of the math block. These anchor charts also help student access important vocabulary.

**Curriculum Connection:** NC.4.NBT.4
**Description:** Anchor charts should be developed with student input during classroom discussions. This anchor chart was created after several number talks that were centered around multiplication. Notice the high level of vocabulary in the chart. With this chart, students can access a range of strategies during math class in order to efficiently solve problems.

**Curriculum Connection:** NC.4.NBT.5
Number Talk Presentations
Topic: Norms for Number Talks

Description: This PowerPoint file consists of 6 slides that will be of use when launching number talks in the classroom for the first time. Each slide presents one norm for the students to follow. Some examples are listening and discussing respectfully, raising hand to be called upon. Hand signals are also introduced.

Link: https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/normsfornumbertalks.pptx

Curriculum Connection: Building Classroom Community
**Topic: Launching Number Talks**

**Description:** This PowerPoint file consists of 6 slides that will be of use when launching number talks in the classroom for the first time. These slides include both the students’ role and the teacher’s role in number talks. Hand signals are also included.

**Link:** [https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/launchingnumbertalks.pdf](https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/launchingnumbertalks.pdf)

**Curriculum Connection:** Building Classroom Community
**Topic:** Number Talks - The First 9 Weeks and Beyond

**Description:** This PowerPoint file consists of 110 slides that can be used to launch number talks in the first nine weeks of school. This presentation was created and used by fourth grade teachers in our state. It consists of a variety of addition and subtraction problems.

**Link:** [https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/numbertalksfirst9weeksandbeyond.pdf](https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/numbertalksfirst9weeksandbeyond.pdf)

**Curriculum Connection:** Building Classroom Community, NC.4.NBT.4
Topic: **Number Talks – Making Friendly Numbers**

**Description:** This PowerPoint file consists of 5 days of number talks that can be used with a fourth grade class who is working on making two 2-digit numbers friendly in order to add mentally.

**Link:** [https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/numbertalksmakingfriendlynumbers.pdf](https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/numbertalksmakingfriendlynumbers.pdf)

**Curriculum Connection:** NC.4.NBT.4
Topic: Fourth Grade Number Talks – Doubles or Nearly Doubles

Description: This PowerPoint file consists of 5 days of number talks that can be used with a fourth grade class who is working on using doubling to add two 2-digit numbers mentally.

Link: https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/numbertalksdoublesonearlyd

Curriculum Connection: NC.4.NBT.4
Number Talk Articles
This article provides tips and strategies for getting started with number talks. As you read, you will learn ways to encourage students to participate, handle mistakes, and attend to the learning goal of the lesson.

Link: https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/tipsforgettingstartedwithnumbertalks.pdf

Curriculum Connection: Building Classroom Community
Topic: Number Talk Frequently Asked Questions

Description: Teachers often have questions about number talks. This article answers 12 frequently asked questions from the perspective of fourth grade teachers who have implemented number talks in their classrooms.

Link: https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/numbertalksfaq.pdf

Curriculum Connection: Building Classroom Community
This article provides a brief snapshot of why number talks are important and how teachers can begin using number talks in their classroom. This article could possibly be used with parents as well if they wanted information about number talks.

Link:  https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/makingthemostoutofnumbertalksinyourclassroom.pdf
Additional Resources
**Topic:** Suggested Mental Math Strategies

**Description:** This resource helps teachers plan and pace their number talks throughout the school year. It lists common strategies for addition, subtraction, multiplication, and division in order of increasing sophistication. Some of the strategies are linked to a video that illustrates the strategy.

**Link:** [https://tools4ncteachers.com/resources/0-kindergarten/additional-resources/cluster-1/number-talks-suggested-mental-math-strategies-by-grade-level.pdf](https://tools4ncteachers.com/resources/0-kindergarten/additional-resources/cluster-1/number-talks-suggested-mental-math-strategies-by-grade-level.pdf)

**Curriculum Connection:** NC.4.NBT.4, NC.4.NBT.5, NC.4.NBT.6
Topic: Number Talk Planning Templates

Description: This planning template helps teachers plan their daily number talks. Using this template teachers can carefully plan and consider the goal/focus strategy for the number talk, possible problems, anticipated strategies, and questions to promote discussion.

Link: https://tools4ncteachers.com/resources/4-fourth-grade/additional-resources/cluster-1/numbertalkplanningtemplateblank.docx

Curriculum Connection: NC.4.NBT.4, NC.4.NBT.5, NC.4.NBT.6
**Topic:** FlipGrid

**Description:** This website is a great way for students to record their thinking for others to view. It can be used as an informal assessment to check for understanding of a specific concept or to learn about the variety of strategies students are using for a particular problem during a number talk. The website is free to use.

**Link:** [https://flipgrid.com/](https://flipgrid.com/)

**Curriculum Connection:** Building Classroom Community
Description: Visit this link to find 18 files for use with number talks. There are presentations for addition, subtraction, and multiplication. In addition, you will find articles on how to use number talks in your classroom.

Link: [https://drive.google.com/open?id=0Bze4eU0rlnwwVG5EZVNMcDJFNmc](https://drive.google.com/open?id=0Bze4eU0rlnwwVG5EZVNMcDJFNmc)

Curriculum Connection: NC.4.NBT.4, NC.4.NBT.5
## Topic: Online Resources

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<th>Description</th>
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<td><strong>Elementary Number Talks</strong></td>
<td><a href="https://elementarynumbertalks.wordpress.com/3rd-4th-and-5th-grade-number-talks/">https://elementarynumbertalks.wordpress.com/3rd-4th-and-5th-grade-number-talks/</a></td>
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<tr>
<td>(Downloadable resources for addition, subtraction, multiplication, and division)</td>
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<td><strong>This Math Was Made for Talking: Targeting Math Discussions in the K-6 Classroom</strong></td>
<td><a href="https://www.nctm.org/blog/thismathwasmadefortalking/">https://www.nctm.org/blog/thismathwasmadefortalking/</a></td>
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<td>NCTM Article</td>
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<td><strong>Multiplication Number Talk: Fourth &amp; Fifth Grade</strong></td>
<td><a href="https://www.teachingchannel.org/videos/4th-5th-grade-number-talks">https://www.teachingchannel.org/videos/4th-5th-grade-number-talks</a></td>
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<tr>
<td>Teaching Channel Video (18 minutes)</td>
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<tr>
<td><strong>Multiplication Number String: Fourth Grade</strong></td>
<td><a href="https://www.teachingchannel.org/videos/multiplication-number-strings-fourth">https://www.teachingchannel.org/videos/multiplication-number-strings-fourth</a></td>
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<td>Teaching Channel Video (21:28 minutes)</td>
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<tr>
<td><strong>Elementary Math</strong></td>
<td><a href="https://elemath.hallco.org/web/number-talks/">https://elemath.hallco.org/web/number-talks/</a></td>
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<tr>
<td>Includes a variety of links to articles, videos, photos about Number Talks</td>
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**Curriculum Connection:** NC.4.NBT.4, NC.4.NBT.5, Building Classroom Community