

NUMBER SENSE RESOURCES

Resource/ Link	Brief Summary (Include Grade)	Submitted by (Use your professional twitter or blog, not your name)
https://solveme.edc.org/whoami/	There are different levels of difficulty, but this can be used for all junior grades (formative assessment to diagnostics). Game involves trying to identify a number based on certain clues involving factors, prime numbers, multiples, etc.	@MrCharmeleon2
https://www.education.com/resources/fourth-grade/number-sense/	Education.com provides various lesson plans, worksheets, puzzles and activities dealing with number sense	@g_gilmoud89
Contig/Contig Jr.	A math game where students take turns using dice and any mathematical operations of their choice to add up to the numbers appearing on a chart. Students earn points according based on the the number of numbers they are able to check off (as well as their position on the board). This game could be modified to be applicable at any of the Junior grade levels by either modifying the contents of the board and/or modifying the dice used (i.e., adding in a 10-, 20-, and/or 100-sided die could make the game quite different).	https://markmckaymail.wixsite.com/mysite/newsandeventsblog
https://www.weareteachers.com/make-teaching-fractions-easier/	This resource includes many different ways that teachers can introduce fractions in the classroom. This resource can be used for the different Junior age groups as it provides tips for each step of the learning process.	@JAClarke
http://mathies.ca/files/Grade%206%20NS%20OERB.pdf	Grade 6 Number Sense and Numeration Ontario Educational Resources Bank (OERB) Activities	@CFINKS
https://quizlet.com/150359243/properties-of-operations-grade-51-flash-cards/	Quizlet is an online tool that allow students to practise almost anything! If you use the “live” aspect then students need to work in a team to make sure the correct answer is chosen. You can search from many posted examples or quickly create your own.	@mstrongm2
https://komodomath.com/a/us-k-5-math-app?gclid=EAlaIQobChMIs	Komodomath is an app that is created, recommended and supported by math teachers. It begins with a diagnostic test so that students are placed at the correct	https://mcconnell44.blogspot.com/

K-3n93I3glVgoqzCh1sIATgEAAYASA AEgL0x_D_BwE	level. It is for K-5 and a learning plan is set up based on their grade level, test results and needs. Practice in targeted curriculum areas are provided and follow classroom math teaching.	
https://mathedsupport.files.wordpress.com/2011/08/decimals_expressing_hundredths.pdf	The following is an e-workshop online teaching resource that provides educators with a variety of activities to teach students about expressing hundredths using decimal notations. These activities include collaborative and individual interactive games and activities where students can apply the knowledge they have learned. For example, "Money Madness" introduces students to operational functions with decimal numbers through the use of an everyday and necessary item such as money.	@MrTCuthbert
Technology Enhanced Learning Ontario	This is a online database connected to D2L. If you have a D2L login you can use this database that has a variety of courses. The platform has grade 4-6 in math with all the strands. Using the home page scroll down to TeLo and explore. The platform has a variety of simulations that help students learn about number sense.	@kylesutter1
Glencoe	Another useful resource is glencoe.com, which is a website that allows students to use manipulatives online. Students can use a variety of features to help them complete number sense questions.	@kylesutter1
Dreambox	Online intuitive resource, not just for number sense but has great resources for this strand.	
Pinterest Activity https://www.bloglovin.com/blogs/classy-teacher-3909800/one-wit-h-unit-rates-1649521747	Pinterest has a number of activities and visuals for teaching number sense. This is one example of an activity that can be done more than once during the unit and it helps students connect to real life applications.	@stefania_dd
http://dandelionsdragonflies.blogspot.com/2012/09/i-saw-this-idea-on-pinterest.html	This activity uses paper cups as a sort of slider where you can easily create different numbers with decimal points so that students can see the relationship between tenths, hundredths, and thousandths	@MMaltais7
https://www.splashmath.com/decimal-games	This website has a variety of decimal place activities for students of all junior levels so that they can be appropriately challenged.	Jaclyn Morse

http://www.3plearning.com/wp-content/uploads/2013/07/mathletics-lesson-plans-ontario-050115.pdf	This resource has detailed lesson plans for all strands in mathematics from grade 1 to grade 6. The lesson plans include expectations, materials needed, assessment opportunities, accommodations and modifications, and a detailed outline of the lesson. This is a great resource for teachers to use to get new lesson ideas.	https://misspsjuniorclass.blogspot.com/
www.mathies.ca	Excellent math website for all strands of math	Steve Kiemele
https://sightwords.com/counting/	Amazing resource for the basics of counting. Always fun to mix in a fun math game to a lesson, the best part about these activities is that they can be adapted to be easier or more difficult depending on the learner.	https://huntersheavenlyresources.blogspot.com/
Zeno Math Dice Games https://zenomath.org/toolbox/dice-games/	Dice games to reframe math as fun & relevant while building skills and confidence. This site has 11 ready-to-use printable instructions and scoring sheets (when needed) Just add dice!	@madameaiello
Prodigy https://www.prodigygame.com	Prodigy is an online platform that allows students to improve their math skills through the game. Grades 1-8	@mssaker1
YouCubed https://www.youcubed.org/resource/number-sense/	A website with a vast amount of resources for all math strands. This link will take you to the number sense page. There are videos, interviews and blogs surrounding a variety of subjects. This site takes the latest research and makes it accessible for teachers to integrate it into their lesson planning.	@KbBorts
http://eworkshop.on.ca/edu/resources/guides/NSN_vol_2_Addition_Subtraction.pdf	This resource is wonderful and is created specifically for Junior teachers. It includes many activities for students. There are also detailed instructional, environmental and assessment accommodations that can be used as well as ways to modify the curriculum.	@EmmaGra55143303
https://www.pinterest.ca/pin/386887424217210109/	This resource focuses on the importance of displaying math concepts on bulletin boards and provides excellent examples.	@MsJessPayne
Ontario Junior Math Resources	This resource provides a plethora of activities specialized to the Number Sense and Numeration strand and geared towards the Junior learner!	@DaviesTeighan
www.splashlearn.com https://www.splashlearn.com/fraction-games	This website provides fun and interactive games for students to learn and increase their knowledge of fractions. Students can play games and learn about:	@NICOLEW56465205

	identifying and modelling fractions in different ways, understanding equivalent fractions using models, comparing fractions with the same numerator and denominator, adding and subtracting fractions. Resource is for K-5 learners.	
https://www.khanacademy.org/math/on-seventh-grade-math/number-sense-numeration	This online platform provides descriptive videos to students regarding all strands of math. Students can access these videos on YouTube. Grade 5 - 12	@MissMackenzie
Money	Within this application students can represent various amounts of money using realistic images of Canadian coins and bills. They can also customize the money tray, drag money singly or in multiples of 2, 5, and 10, and annotate work and write out each monetary value in words.	@ms_worden_
https://thelearningexchange.ca/wp-content/uploads/2017/01/Number-Sense-and-Numeration-Vol-1-Big-Ideas-4-6.pdf	Number Sense and Numeration, Grades 4 to 6 is a practical guide, in six volumes, that teachers will find useful in helping students to achieve the curriculum expectations outlined for Grades 4 to 6 in the Number Sense and Numeration strand of The Ontario Curriculum, Grades 1–8: Mathematics, 2005. This guide provides teachers with practical applications of the principles and theories that are elaborated in A Guide to Effective Instruction in Mathematics, Kindergarten to Grade 6, 2006.	@carleysimpson18
http://www.sheppardsoftware.com/mathgames/decimals/BalloonPopDecimals1.htm	This is a great game for ordering decimals with special attention paid to place value.	https://greatjuniorlearning.blogspot.com Alice Gillham
KnowledgeHook	Knowledgehook is a math-based website used by some school boards in Ontario to help students grow in their mathematical ability at their own pace. Students will receive personalized questions intended to challenge them at their current academic level.	Ken
Teacher Vision	This website is an excellent toolkit for Junior teachers. It has resources for Math organized by grade and strand, including worksheets students can print out and practice	@CarreiroK4

[illegible]

http://www.coolmath-games.com/0-crazy-taxi-m12/index.html	Grade 4 - Number Sense & Numeration multiply to 9×9 and divide to $81 \div 9$, using a variety of mental strategies (e.g., doubles, doubles plus another set, skip counting); A game that reinforces multiplication by racing a taxi to hit others taxis with numbers that are a multiple of the number given	@cjgmman
http://nlvm.usu.edu/en/nav/top.html	This site provides a number of online manipulatives for geometry. Is already divided into grade level and particular strand	@monsieurverwey
http://www.mathplayground.com/number_bonds_fractions.html !	Grade 4 - represent fractions using concrete materials, words, and standard fractional notation, and explain the meaning of the denominator as the number of the fractional parts of a whole or a set, and the numerator as the number of fractional parts being considered This game reinforces the concept of fractional parts in a fun interactive way. Also sets the stage for the concept of adding fractions.	@MrXroads
http://threeacts.mrmeyer.com/sugarpackets/	Great 3 part lesson from Dan Meyers, working with equivalent ratios (Grade 6).	@Room11STJ
www.prodigygame.com	Game developed for grades 1-6 students to help develop skills in numeracy. Teachers can get updates on progress.	@laurawhitesst
http://www.pbslearningmedia.org/resource/f79f8bb4-ef77-4ca5-afa8-4e5c69211786/f79f8bb4-ef77-4ca5-afa8-4e5c69211786/	Dunk Tank Online Game: Fractions, Decimals, and Percents This online game reinforces students' understanding of the relationship between fractions, decimals, and percents. In this interactive game, students have to quickly find the equivalents of stated fractions, decimals and percents. It also includes videos that incorporate effective humour techniques to discuss everyday life situations where decimals, percents and fractions are used (i.e., a piece on "50% off sales" and why students should still be careful and conscientious when	@MrWelshNCD SB

	shopping). The Dunk Tank game also includes links to other math-related games that connect to other strands in the Grade 6 Math curriculum. This meets the following curriculum expectations for grade 6: – Students will determine and explain, through investigation using concrete materials, drawings, and calculators, the relationships among fractions (i.e., with denominators of 2, 4, 5, 10, 20, 25, 50, and 100), decimal numbers, and percents...	
http://cemc.math.uwaterloo.ca/resources/invitations-to-math/NumberSense-Grade6.pdf	This series of activities is specifically linked to the Grade 6 curriculum. There are over 20 different activities with corresponding curriculum (compare, order, and represent decimals, or fractions; solve multi-step problems involving whole numbers and decimals with and without a calculator; use and verify estimation strategies to determine the reasonableness of solutions - just to name a few!) There is even a sample letter for parents, outlining the activities and the ways that concepts can be reviewed at home.	@pyjama_park a
Online resource:http://www.eworkshop.on.ca/edu/resources/guides/nsn_vol_6_decimal_numbers.pdf	(On page 46 - grade 5 activity/game). Title: 'Number Sense and Numeration; grades 4 - 6 (made by Ontario Education). Grade 5 activity. Related expectations: represent, compare, and order whole numbers and decimal numbers from 0.01 to 100 000, using a variety of tools. -demonstrate an understanding of place value in whole numbers and decimal numbers from 0.01 to 100 000, using a variety of tools and strategies.	@MrsLepindea

http://ca.ixl.com/math/grade-5/place-values	I found a great site which I will be referencing from now on. It helps students with pre-loaded questions that deal with student understanding and strands	@SuhadDoc
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http://www.funbrain.com/numwords/index.html	This is a great tool for grade 4 students who are working on writing and reading numbers up to 10000. Students are asked to write the number of the word found on a check to "win all the cookies."	@BiancaDegrandis
http://www.mathsisfun.com/decimal-fraction-percentage.html	This site explains the relationship of fractions, decimals and percents. There is an interactive chart where the student can change either the fraction, decimal or percent and see the effect on the others. Grade 4 +	@taralaj

https://www.brainpop.com/	An interactive SmartBoard website with lots of math lessons	@MissCaers
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http://www.bbc.co.uk/bitesize/ks1/maths/place_value/	This activity regarding place value relates to the grade 5 / 6 expectations. Use of place value and decimals are explored in this accessible and fun game.	@jovan0001
http://www.explorellearning.com/index.cfm?method=cResource.dspChildrenForCourse&CourseID=368	Gizmos offers a range of curriculum and grade linked demonstrations. There are worksheets and teacher guides for each. I believe that the MOE pays for province wide access	@fysiksteacher
https://ca.ixl.com/math/ratios-and-proportions	This website provides grade 6 students with a chance to practice their ratios and proportion skills.	@TomPociecha
http://internet4classrooms.com/skill_builders/division_math_for	This website provides grade 4 students with the opportunity	@mazz5m

urth_4th_grade.htm	to practice their division skills. On this website there are a lot of separate links that lead to division games that will be very beneficial for students at this level.	
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http://nrich.maths.org/public/leg.php?code=20&cl=2&cldcmpid=8283	great educational games with all types of fractions (improper, mixed, different denominators)	@mlelalli
http://resources.woodlands-junior.kent.sch.uk/maths/fractions/index.htm	Interactive games and activities for students to practice a variety of number sense skills. This link will direct you to the fraction section, which is Grade 6 level, and in the side bar there are other categories for varying grade level activities under "Number Skills."	@MlleBrown
http://www.mathcats.com/explore/reallybignumbers.html	game for students to practice identifying, saying and reading numbers of varying sizes (Grades 4-6)	@MissBoyne
http://www.ucdsb.on.ca/school/rce/curriculum/Documents/Kindergarten%20to%20Grade%203/mathematics%20guide.pdf	This is a resource for parents of children ranging from JK to Grade 6. It can be used for parents to help their children explore math in real life situations. Such as at the grocery store.	@Mlle_Faria
http://www.explorelearning.com/index.cfm?method=cResource.dspView&ResourceID=1025	This resource allow students to make predictions to shoot a clown out of a cannon and land on a number line. This allows students to work with their understanding of whole numbers. <i>Expectations:</i> Grade 4: demonstrate an understanding	@missaliciamm

	of place value in whole numbers and decimal numbers from 0.1 to 10 000, using a variety of tools and strategies	
http://www.math-play.com/Fractions-Decimals-Percents-Jeopardy/fractions-decimals-percents-jeopardy.html	This online interactive jeopardy game is a fun way for students to test their knowledge of relationships between fractions, decimals and percents. It is also a 'team' based game. Students could play in groups of 4 individual players, or as a class in 'teams'. There are many more games on this site as well,	@Ms_Haasnoot
http://www.maths-games.org/fraction-games.html	This online fractions games site helps students compare and order fractions with various games. The games focus more on grade 4 expectations.	@kc01ap
http://ca.ixl.com/math/grade-6	This is a resource that has lots of math topics with quiz questions and there is one for numbers at the top of the page in the left column. There are a variety of questions for students to complete (18 sections in total!) that range from basic review questions to more complex questions.	@KerriTayler
http://www.gcflearnfree.org/math	Math Basics offers help with basic math like subtraction, multiplication, division, fractions, times tables and percents. It provides math tutorials and	@MrTayler88

	learning interactives to make learning math easier, and allow you to practice basic math skills at your own level and pace	
http://mathcentral.uregina.ca/RR/database/RR.09.99/sawatzky1/strand-numb.html	This website offers 6 different hands on activities for grade 5 students. You can choose the strand you'd like to focus on- Numbers and Operations, Measurement, Geometry, Problem Solving, and Data Management. The tasks can be adapted for grades 4-6.	@missferencik
http://www.linktolearning.com/number_sense.htm	This website offers a variety of activities pertaining to number sense and numeration in the junior grades	@Ms_Schindel
http://www.edugains.ca/resourcesFL/VideoClipsFL/Elementary/Gr4_MathLang_PlanningPetPurchase/AssociatedFiles/LessonPlan_Gr4Math_Lang.pdf	This is an awesome lesson that combines Financial Literacy (which explicitly covers some of the NS expectations) and Language. It is about buying and caring for a pet, and planning financially to do so, which is very realistic for students at the Junior level! Specifically it is for a Grade 4 level. The expectations are listed in the Lesson Plan.	@MlleVogan

http://www.bbc.co.uk/education/subjects/zghs34j	This site offers a video and practice activity for each strand in math, but there are a lot of options for number sense. Great for practice and review after a concept has been taught. Grades 4-7.	@MlleLewis
http://www.sowashco.org/ro/pages/studentlinks/math/4-5math.htm	This site offers different math games for students in grades 4 and 5.	@mme_boudreau
http://www.eworkshop.on.ca/edu/resources/guides/NSN_vol_1_Big_Ideas.pdf	This document explores the Number Sense and Numeration Strand. It includes teaching strategies and lesson examples.	@MissBRobinson
http://mathcentral.uregina.ca/RR/strands/e/6	Math Central is a website that is recommended on the MOE Teaching Tools website. It offers services in English, French, and Spanish. Providing a variety of resources specific to Number Sense. Interestingly they offer a connection to First Nations cultures and math, allowing for a cross curricular connection in your math lesson	@CPatterson1206
https://www.youtube.com/watch?v=oyoP79-Pqoc https://www.youtube.com/watch?v=OSZw8jpfAk0	These are 2 very different strategies for teaching multiplication. Neither is the traditional algorithm.	@Burkes
https://www.youtube.com/watch?v=WYijIV5JrKg Numberphile videos	Great series of YouTube videos to get keen students thinking about cool numbers	LScourserequirement

<u>The Opposite of Infinity - Numberphile</u>		
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http://www.mathsisfun.com/fractions-menu.html	Great resource for fractions from grades 1-7	@MrZaccaria
https://www.khanacademy.org/	a tool to watch extra videos and to get help learn on their own pace	@seongy3
http://interactivesites.weebly.com/fractions.html	Fraction practice for grades 4-6. Naming the fraction when looking at a picture representation, equivalent fractions with different denominators, decimals and fractions, ordering fractions from smallest to largest.	@Angela_Shimizu
http://eworkshop.on.ca/edu/core.cfm?p=documentView&navID=documentView&c=0&type=2&L=1	This website has a variety of different activities and lesson you could do with students in grades ELKP-6 on different concepts taught in the different math strands. Some examples are fractions, measurement and problem solve also beside each concept it tells you which grades it covers. You are provided with the necessary worksheets on the website.	@daniellepurdie1
http://eworkshop.on.ca/edu/resources/guides/NSN_vol_3_Multiplication.pdf	This is a great PDF document titled "a guide to effective instruction in mathematics, kindergarten to grade 6". It contains suggestions on how to teach multiplication in the junior grades, explains the use of models to represent multiplication as well as provides numerous learning activities. Grades 4-6	@Ms_Hanoun

https://ontariomathresources.ca/math-strands/number-sense-and-numeration/	These activities complement the concepts featured in the modules related to the Number Sense strand. Multiplication and Division • multiplication lesson summ • multiplication problems • division lesson summ • division problems • Factors – Lesson	mssandford.blogspot.ca/
http://www.math-only-math.com/4th-grade-math-activities.html	This is a great resource for grade four students. The website covers every topic in the grade 4 curriculum and actually provides students with individual lessons and strategies to complete their homework. Students could log onto the site and be shown four different ways to complete a question. I think it is great because every section gives students a variety of different examples and practice worksheets are attached.	@misswhaling
https://cilmpvnc.wordpress.com/2012/01/11/number-sense-with-money-grades-5-and-6/	This is a womans site that has specific lessons on money and how to apply it to the junior grades. She gives some great examples and there are other resources as well.	9F77 Blogspot
http://www.xpmath.com/forums/arcade.php?do=play&gameid=67	Helps students learn and define terms using a fun game about numeracy. Grade 5 or 6 Numeracy Terms	@MagisterFrodo

https://www.khanacademy.org/math/on-sixth-grade-math/on-number-sense-numeration	I really like the way in which they lay out the steps for each sub-strand. It builds students knowledge in a logical way and can also be a very useful blended learning tool. Unfortunately this tool only covers grade 6 and up. However, it would be fantastic to use as part of an enriched curriculum.	@MaxwellPower7
http://www.edugains.ca/resources/LNS/GuidestoEffectiveInstruction/GEI_Math_K-6/NumberSenseNumerationGr4-6/Addition.pdf	Here is another good resource for learning number sense and numeration for grades 4-6. Most especially for teachers, to deepen their knowledge on how to teach numerical literacy effectively and efficiently. Great means for students to learn more about number sense and numeration.	@marytownson35
http://www.math-drills.com/numbersense.php	This site offers worksheets for the method of drills to help students memorize their number sense.	@jeffzwolak
https://play.kahoot.it/#/k/67717a06-3289-4773-9209-9fa6ead56118	It is for students in grade 4 learning about whole numbers and rounding to the nearest hundreds, thousands and millions.	http://katcav.edublogs.org/
http://www.eworkshop.on.ca/edu/pdf/Mod27_relating_fractions_and_decimal.pdf	This resource is from TFO by the Ministry of Education. Here teachers have a choice between two games that students can play to match and relate fractions to decimals and vice versa. Each game has variations listed in order to increase or decrease their level of difficulty. Both games can be easily adapted to the needs and interests of the students and can be set in various contexts.	http://mademoisellefsl.blogspot.ca/ http://mrracine.blogspot.ca/
http://www.freeteacher.co.uk/	This online resources contains effective numeracy practice	@FitTeacher4Life

	activities for students from grades 1-6. There are hundreds of activities relating to adding, subtracting, dividing, multiplying and percentage.	
http://www.edugains.ca/website/math/guides_effective_instruction.html	EduGAINS is a website that provides resources and explanations for a concepts in math. The resource is broken down into grades, which are groups based on what concepts are being taught in each grade. The website has handbooks for different concepts in Number Sense and Numeration that can help teachers effectively instruct and assist students in meeting the expectations.	@KellyVan10
http://www.abcya.com/fraction_percent_decimal_tiles.htm	In grade 4 students will represent, compare, and order decimal numbers to tenths, using a variety of tools and using standard decimal notation. In grade 5 students will represent, compare, and order fractional amounts with like denominators, including proper and improper fractions and mixed numbers, using a variety of tools and using standard fractional notation. In grade 6 students will represent, compare, and order fractional amounts with unlike denominators, including proper and improper fractions and mixed numbers, using a variety of tools and using standard fractional notation. Fraction tiles and decimal blocks are great tools for students when	mrbcassy.blogspot.ca

	trying to visualize fractions or decimals. This website gives online versions of these tools. Students can use them to create visual representations of fractions and decimals. When comparing two fractions or decimals, students can make a visual and see which ones are bigger. These are great tools for any activities involving fractions or decimals.	
http://www.bbc.co.uk/bitesize/ks3/maths/number/	Bitesize is a website that offers support to various subject-areas. With a focus on Mathematics at the Junior level, <i>Bitesize Math Numbers</i> offers revisions on various concepts (e.g, Fractions, Decimals & Percentages) along with activities and then a mini-test to demonstrate understanding.	http://fthenos77.wix.com/love2!earn5
http://www.k5chalkbox.com/number-sense.html	This website provides different number sense activities for teachers to use. There are activities that parents can also print off.	http://thachuksclassroom.blogspot.ca/
http://www.bbc.co.uk/bitesize/ks2/maths/number/	This site has many interactive games to extend students in the junior division learning beyond the classroom. As mentioned on the website; "Knowing simple sums and learning useful calculations can help you with everyday tasks." These will aid students in the Quantity Relationships area of expectations.	http://mrlostclass.blogspot.ca
http://motionmathgames.co	Motion Math is a resources for	

m/motion-math-zoom/	students to use to explore place value as its an interactive number line.	
https://sites.google.com/a/norman.k12.ok.us/mr-wolfes-math-interactive-whiteboard/5th-grade	Motion Math is a resources for students to use to explore place value as its an interactive number line.	
http://illuminations.nctm.org/Lesson.aspx?id=1296	A good resource to help students who are struggling to learn fractions. Uses an egg carton to help explain- includes lesson plans that can be used at home or at school.	http://mrskkclass.weebly.com/grade-5-science-curriculum.html
• http://www.greatmathsteachingideas.com/2011/01/16/the-10-best-maths-teaching-resource-websites/ • http://www.snappy-maths.com/ • http://www.ontariomathedresources.ca/	Great sites that have a lot of printable worksheets and lessons and free games that are heavily rooted in the number sense and numeration (IE place value, fractions, money, tax etc). The sheets are great practice for students of all strengths; I believe these are awesome resources because these skills are so essential not only in the real world but to the other strands of math as well. These links follow the expectation of read represent and compare as students are working with the fundamentals of numeracy skills (all the other strands have strong roots in number sense and numeration)	http://mrjacksoniscool.weebly.com/

http://jumpmath.org/jump/sites/default/files/Basic%20NumberSense.Worksheets-01.pdf	This site is absolutely amazing as it provides 32 different worksheets for grade 5 students to practice their number sense and numeration skills. These worksheets cover the majority of the curriculum for grade 5 - read, represent, compare, and order whole numbers to 100 000, decimal numbers to hundredths, proper and improper fractions, and mixed numbers; - demonstrate an understanding of magnitude by counting forward and backwards by 0.01; - solve problems involving the multiplication and division of multi-digit whole numbers, and involving the addition and subtraction of decimal numbers to hundredths, using a variety of strategies;	http://missspeck.blogspot.ca/ (Danielle) https://sites.google.com/site/mrbsfrenchclass/ (Drew)
http://cemc2.math.uwaterloo.ca/mathfrog/main.shtml	Math Frog is a web site created by the University of Waterloo Mathematics Faculty. It is specifically designed for the Junior grades. On the website, there are various links that students can click on, depending on their grade, and what part of the curriculum they would like to play. There are also links to parents and educators to provide follow up activities, and instructions. One neat feature is the “Problem of the Week” link that is located at the bottom of the home page.	http://mrryanday.wix.com/grade5withmrday

https://ca.ixl.com/math/grade-4	This website provides all the math skills students learn in grade 4-6. These skills are organized into categories, and you can move your mouse over any skill name to view a sample question. It tracks the score	http://peacemma.blogspot.ca/
http://mathwire.com/games/numbergames.html	Mathwire games are great for students at the grade 4 level. They are fun activities to play to reinforce math skills.	https://cutlersclass.wordpress.com/2016/06/12/geometry-tools/
Ontario Junior Math Resources	Grade 6 This is an Ontario based site which relates the resource with the N/S strands for this Grade	@shankjr
http://educ.queensu.ca/coc/resources		@EvansEducation

https://illuminations.nctm.org/Activity.aspx?id=3519	Grade 4 - 6 Number Sense and Numeration: Proportional Relationships G4: – determine and explain, through investigation, the relationship between fractions (i.e., halves, fifths, tenths) and decimals to tenths, using a variety of tools (e.g., concrete materials, drawings, calculators) and strategies (e.g., decompose $\frac{2}{5}$ into $\frac{4}{10}$ by dividing each fifth into two equal parts to show that $\frac{2}{5}$ can be represented as 0.4); G5: – determine and explain, through investigation using concrete materials, drawings, and calculators, the relationship between fractions (i.e., with denominators of 2, 4, 5, 10, 20, 25, 50, and 100) and their equivalent decimal forms (e.g., use a 10 x 10 grid to show that $\frac{2}{5} = \frac{40}{100}$, which can also be represented as 0.4); G6: – determine and explain, through investigation using concrete materials, drawings, and calculators, the relationships among fractions (i.e., with denominators of 2, 4, 5, 10, 20, 25, 50, and 100), decimal numbers, and percents (e.g., use a 10 x 10 grid to show that $\frac{1}{4} = 0.25$ or 25%); Students can visually see the connections between fractions, decimals, and percentages immediately. Students can view different fraction forms (blocks,	@mklomp17
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	pizza, circles, etc) and adjust the slider to see how it affects the fraction, decimal and percentage. There is a lesson plan included.	
http://www.sheppardsoftware.com/mathgames/placevalue/FSCcompareNumbers.htm	This resource is a math game that ask students to compare numbers and see which one represent the bigger quantity. I think this is a great resource because it authentically engages students and allows them to play while they learn @Heroux52 ----->	
http://eworkshop.on.ca/edu/resources/guides/NSN_vol_6_Decimal_Numbers.pdf	Perfectly aligned with the Ontario curriculum expectations. This resource offers great activities and offers a lot of great tips for teachers to help all students	@McSand4
http://www.k5learning.com/free-math-worksheets/fourth-grade-4/word-problems	Math worksheets for grades 1- 6 that review a variety of strands. Offers the K5 program for learners in grades K-5. Students work at their own level and pace through a customized program.	http://mrmercerclass.weebly.com/
http://www.mathworksheets4kids.com/activities/4th-grade.php	Countless worksheets for all junior levels of Math. Includes practice amongst many other activities.	http://mrmercerclass.weebly.com/

http://www.adaptedmind.com/categorylist.php?categoryId=1	Interactive number sense activities for primary and junior classes.	@tsniezek
https://nrich.maths.org/2477	This resource not only provides general information about developing early number sense in students, but also provides some resources on games that can assist with the continued development and mastery of number sense.	http://aditisood4.wix.com/mysite
http://www.learnalberta.ca/content/me5l/html/math5.html	This is an interactive resource (with awesome, upbeat intro - enjoy!) plays videos that break down maths concepts for easier understanding. Works well for Grade 4 and 5 but can be used for grade 6 as well. Encompasses most of the curriculum in the various tabs.	@ MsACabral
https://sw1math.wikispaces.com/Three+Part+Lessons+%26+Units	This wikispace has lots of excellent resources for all math strands and all ages @BainGenevieve	

http://www.knowledgeadventure.com/games/quick-math/ Grades Pre K -6	Lots of game choices so that kids do not get too tired of any game. Many, many opportunities for catch up skills and for those gifted kids to be challenged, all at their own pace AND doing exactly what everyone else is doing!!	madameJ@blogger.com
http://www.mathplayground.com/geoboard.html Grades Pre-K - 11	A great way to do 'hands-on' Math even if you do not have enough manipulatives, geo-boards in this case, for each student. There are also videos with diagrams to help kids out with specific skills.	MadameJ@ blogger.com
https://www.chilimath.com/algebra/intro/algexpress/algebraic-expressions.html	This one is recommended for gifted kids. Looks good for all kids to me!! Super clear layout, progresses well from explaining basic terminology to simple equations, to more complicated applications. For all elementary grades.	MadameJ@blogger.com
http://eworkshop.on.ca/edu/resources/guides/Guide_Data_Management_Probability_456.pdf Grades 4-6	A teacher guide that is quite extensive. Lots of real-life connections and a list of further resources that is very strong.	MadameJ@blogger.com
https://sites.google.com/a/norman.k12.ok.us/mr-wolfes-math-interactive-whiteboard/5th-grade	Grade 5 The first website is a Grade 5 teachers interactive whiteboard. It has many online games and resources for grade 5 math. The second link is to a game that has the students attempt to hit the	@MissHKerr4

https://jr.brainpop.com/games/battleshipnumberline/	target of the battleship on a numberline. The students must estimate the decimal number for the coordinates of the ship.	
http://www.mathplayground.com/grade_6_games.html	Game based learning for Numeracy as well as other strands.	@jlament
http://exchange.smarttech.com/details.html?id=6ce14bc2-3cf7-42fb-ab96-62df8d54c944	- Smart Board Lesson comparing various products and what is the better deal.	@JohnMol29432226
http://www.mathsisfun.com/measure/unit-price-game.html	- Unit-Price game	@JohnMol29432226
https://www.explorelarning.com/index.cfm?method=Resource.dspDetail&ResourceID=444	Unit rates for energy usage in household appliances. Can be adapted as an extension activity for grade 6's.	mz14og

https://www.khanacademy.org/math/cc-fifth-grade-math/cc-5th-place-value-decimals-top/cc-5th-decimal-pv-intro/v/decimal-place-value	This website not only shows a video in understanding place value decimals, but also allows for application as it has practice tools online. It is all done with student friendly language, which makes it optimal for learning. At the end there is a great review sheet that allows for students to print out and keep.	@MsKBalks
http://www.e-learningforkids.org/math/lesson/street-orchestra-fractions-decimals/	This is a fun game that students can practice their fractions and decimals with. It is specific to Gr. 4 math. Feel free to explore this website for more math games as well!	@teachbert
http://www.pdtca.org/uploads/2/6/5/6/26566833/id_03_-_power_play_games_for_teaching_upper_elementary_place_value_-_place_value_games_gr_4-6.jane_felling.80.pdf	Here are a couple easy, fun games for students to learn place value. The only materials you need are dice, pencils and paper!	@MissNeudorf
https://www.khanacademy.org/math/pre-algebra/pre-algebra-arith-prop/pre-algebra-place-value/v/place-value-1	Khan Academy has a whole folder of videos dedicated to place value. The video linked here is an introduction to place value that would most likely be used with Grade 4 students near the start of a unit.	@MissNeudorf

http://www.learn-with-math-games.com/printable-fraction-games.html	Learn with math games is a great site with a variety of different activities. This one is specifically for grade 4 and 5 when dealing with fractions, it is a board game called fraction fiasco.	@schagenanigans
http://www.edu.gov.on.ca/eng/teachers/studentsuccess/ProportionReason.pdf	This is a great resource to help teachers who are struggling teaching proportional reasoning. Proportional reasoning is such an important skill for students to learn that teachers need to be fully prepared with tools and strategies to help learners. This resource has many of those provided!	misspettorossijuniorclassroom
http://eworkshop.on.ca/edu/resources/guides/NSN_vol_5_Fractions.pdf	This is a good refresher on representing numbers in a variety of ways, ie a number line, as pictures, in words, which aligns with the grade 4-6 curriculum	misshewitsonsclassroom
http://mathclips.ca/swfPlayer.html?swfURL=tools/NumberLine1.swf&title=Number%20Line	This tool comes from http://www.ontariomathedresources.ca/ and it could be used for students to put numbers on a number line. It would be a great visual for them to arrange numbers.	@monsieurm33

Jungle Coins	Jungle coins is an app that can help students practice their number sense and practice representing various amounts of money using Canadian currency both at school and at home. This app would be especially helpful for students who may be struggling with counting smaller amounts of money, giving the correct amount of change, etc. By having students practice and develop the foundational skills that they may be lacking when it comes to reading and representing money, they will be better prepared to read, represent and write larger amounts of money as they transition from Grade 4 to 6.	@miss_bourque
Links to Learning: Number Sense and Numeration	This site is a resource library that connects teachers with a surplus of additional resources - worksheets, games, and lesson plans. It is useful for all junior grades.	Ms. Long's Classroom Blog
https://ontariomathresources.ca/math-strands/number-sense-and-numeration/	This website provides links to games as well as a variety of activities and lesson plans for teaching Number Sense and Numeration to Junior students.	@AQJuniorCourse

https://www.bankaroo.com/ /	Bankaroo is an online banking site for kids to learn about money. There are many applications for home and school.	@KB0yle
http://www.erlc.ca/resources/resources/first_steps_in_mathematics/documents/number-sense.pdf	First Steps in Mathematics: Number Sense by Pearson. Includes a diagnostic map which helps teachers determine where students are in order to know what the next steps are, as well as sample activities.	@MadameBatt
http://www.k-5mathteachingresources.com/5th-grade-number-activities.html	This resource provides teachers with various resources such as sample activities and math-related books that teachers can use in the classroom for numeracy. In addition, it can be used for geometry or measurement and data and grades from K-5 can be chosen.	@Mlle_CT

http://www5.sd71.bc.ca/math/index.php?page=lessons-activities-grade-4	This resource is for grade 4 number sense. It not only has practice sheets/ activities for students but also has full lesson plans for teachers to use. It also provides cross-curricular activities that include french lessons and language (reading) activities while incorporating math	@mcdiarmidkl1
Number Sense & Numeration http://www.edugains.ca/resources/LearningMaterials/GapClosing/Grade6/GCU4_SB_OrderingWholeNumbers.pdf	Comparing and Ordering Whole Numbers Junior / Intermediate Student Book authored by Marian Small	@barblane9

Number Sense and Numeration: http://mathwire.com/games/pvgames.html	This is an educational website where students can visit and strengthen their skills with basic number sense questions. This site is also good for teachers looking for classroom ideas.	@Monsieurvw
http://www.cemc.uwaterloo.ca/resources/potw.php	Number sense and numeration can be studied in partner together with any other math strands because of this this resource provides you with challenging and open ended questions that you can incorporate into any of your math units.	@samaan.mirna
http://eworkshop.on.ca/edu/resources/guides/NSN_vol_4_Division.pdf	This is a great e-workshop that focuses on instructing Division to students in grades 4-6. There are several worksheets, lesson ideas and strategies..	@s_howorunwest
https://ontariomathresources.ca/math-strands/number-sense-and-numeration/	This website has all kinds of lesson plans, ideas and activities for Number Sense & Numeration in the Junior grades!	@victoria_glass
http://www.bbc.co.uk/skillswise/topic-group/numbers	Includes games and videos for number lines, number symbols, place value, decimals, negative numbers, rounding and estimating and formulas.	http://gorettem.blogspot.ca/

http://www.linktolearning.com/number_sense.htm	Link to Learning- Number Sense and Numeration, is a website which offers interactive games from the primary level, to junior and intermediate and through the secondary level. It is divided by grade level and by topic.	https://livetolearnblogspot.blogspot.ca/p/math-resources.html
xtramath.org	An online program that allows kids to practice / reinforce their math skills, including number sense and algebra.	@mradamtownsend

http://eworkshop.on.ca/edu/resources/guides/NSN_vol_5_Fractions.pdf	Number Sense and Numeration, Grades 4 to 6 is a practical guide, in six volumes, that teachers will find useful in helping students to achieve the curriculum expectations outlined for Grades 4 to 6 in the Number Sense and Numeration strand.	https://sites.google.com/view/mmesherrilee-classroom
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Khan Academy Grade 4: Multiplication and Division	This section of Khan Academy works to strength the multiplication and division skills of a grade four student. There are many positive reinforcements in these modules to motivate students such as achieving a “level up” when they get a certain percent of questions correct, becoming an apprentice, and then an explorer, and other titles while trying to active a mastery in the unit, and providing students with trophies and interactive cues to show encouragement and support. These videos are done at the pace of the student and can be re-watched multiple times before testing. Students also get to choose when they are ready to take the test and what lessons they want to learn in each video.	@ltadic11
Polling: Neighbourhood https://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=507 Estimating: Population Size https://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=261	Both of these interactive tools relate to proportional reasoning and identity. They are both through the website Gizmos (you may need a membership to access them, I have one through my board). The Gizmo called " Polling: Neighbourhood " is suited more for grade 6 and above, and it relates to proportional identity because it investigates proportions in a real-life scenario. The Gizmo called " Estimating Population Size " is also more suited for grade 6, and it investigates proportions related to population size of fish in a pond, which could also be connected to our cross-curricular lesson on biodiversity.	@missmilberry
https://www.buzzmath.com	Buzzmath is an excellent tool to practice math skills. It has immediate and detailed feedback and examples that allow students to work at their own pace. It is ideal for grade 6 students. Grade 6 Number Sense and Numeration Expectation:	@gravinams

	- add and subtract decimal numbers to thousandths, using concrete materials, estimation, algorithms, and calculators;	
http://www.educationworld.com/a_les https://ca.ixl.com/math/grade-4son/daily/daily/daily127.shtml	Expectations of grade 4 Number Sense and Numeracy; Attributes, Units and Measurements curriculum are covered. There is skills practice which increases in difficulty as students improve. Expectations in Geometry, Measurement, Data Management and Patterning and Algebra expectations are also covered on this site.	https://mcconnell44.blogspot.com/
BBC Bitesize- Number https://www.bbc.com/bitesize/topics/znbxsg	Useful for grade 4 and upwards. The site provides kid-friendly information and diagrams, videos and online tests by topic. The geometry topics relate to the expectations that address these topics: -Whole Numbers -Decimals -Converting between fractions, decimals and percentages -Approximation -Fractions -Multiples and Factors	@KSielicki25
Crazy Times Table APPLICATION OR Math Flashcard apps	Focusing mostly on multiplication but is available as an app	@misstosorio
2006 Ministry document	Number Sense and Numeration, Grades 4 to 6 Great resource for Characteristics of Student Learning and Instructional Strategies	@psheehan95
https://ca.ixl.com/math/grade-6/estimate-to-solve-word-problems	Word problems to encourage estimation (Grades 4-6). Shows students step-by-step process for estimation if they get the answer incorrect	@MsAmyPepper
Khan Academy	Extra support lessons for students that are struggling with multiplication and numeracy in Grade 4	Jenna Dierick

Grade K-5 Math Learning Games (APP)	This is a free APP where students from K-5 are able to use interactive math skills and it is aligned to curriculum standards (such as number sense and counting). This would be useful for practice for students in grade 5 (below is the expectation): -Read, represent, compare, and order whole numbers to 100 000, decimal numbers to hundredths, proper and improper fractions, and mixed numbers;	@teachingwiz (blog)
Fractions App Math Learning Centre	This is an app called “Fractions” from “The Math Learning Centre”: https://www.mathlearningcenter.org/resources/apps/fractions. The app helps students practice adding, subtracting, multiplying and dividing fractions. After trying it, I found it is a really great app for representing fractions! Teachers could use this while teaching Number Sense and Numeration and doing examples involving fractions. There is a tool for easily representing fractions in either a pie format or a rectangle format. This is great for visual learners, as students can easily see and compare fractions. Students could also use an inquiry approach with this app and explore for themselves what fractions look like when represented in a visual way. On the same website, there are also a number of different manipulatives that can be downloaded for free and will help students with numeracy skills. They can be found here: https://www.mathlearningcenter.org/resources/apps. Teachers could put these up on a SmartBoard to do a demonstration or could let students explore and try for themselves!	@KBrown_TLDSB
Loot Pursuit: Pompeii	This iPad app combines history and math, making it a great cross-curricular option! Students solve math problems on algebraic thinking, fractions, geometry, number system, or ratios and proportions. They select the level they are comfortable working at and are given a comic strip about Pompeii and needing to told the problems to uncover artifacts. They can learn about the artifacts as well while they solve the equations.	Daniella D’Ambrosio

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Khan Academy Grade 4: Multiplication and Division	This section of Khan Academy works to strength the multiplication and division skills of a grade four student. There are many positive reinforcements in these modules to motivate students such as achieving a “level up” when they get a certain percent of questions correct, becoming an apprentice, and then an explorer, and other titles while trying to active a mastery in the unit, and providing students with trophies and interactive cues to show encouragement and support. These videos are done at the pace of the student and can be re-watched multiple times before testing. Students also get to choose when they are ready to take the test and what lessons they want to learn in each video.	@ltadic11
Polling: Neighbourhood https://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=507 Estimating: Population Size https://www.explorelearning.com/index.cfm?method=cResource.dspDetail&ResourceID=261	Both of these interactive tools relate to proportional reasoning and identity. They are both through the website Gizmos (you may need a membership to access them, I have one through my board). The Gizmo called " Polling: Neighbourhood " is suited more for grade 6 and above, and it relates to proportional identity because it investigates proportions in a real-life scenario. The Gizmo called " Estimating Population Size " is also more suited for grade 6, and it investigates proportions related to population size of fish in a pond, which could also be connected to our cross-curricular lesson on biodiversity.	@missmilberry
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http://www.educationworld.com/a_les https://ca.ixl.com/math/grade-4son/daily/daily/daily127.shtml	Expectations of grade 4 Number Sense and Numeracy; Attributes, Units and Measurements curriculum are covered. There is skills practice which increases in difficulty as students improve. Expectations in Geometry, Measurement, Data Management and Patterning and Algebra expectations are also covered on this site.	https://mcconnell44.blogspot.com/
BBC Bitesize- Number https://www.bbc.com/bitesize/topics/zgnbxsg	Useful for grade 4 and upwards. The site provides kid-friendly information and diagrams, videos and online tests by topic. The geometry topics relate to the expectations that address these topics: -Whole Numbers -Decimals -Converting between fractions, decimals and percentages -Approximation -Fractions -Multiples and Factors	@KSielicki25
Crazy Times Table APPLICATION OR Math Flashcard apps	Focusing mostly on multiplication but is available as an app	@misstosorio
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https://ca.ixl.com/math/grade-6/estimate-to-solve-word-problems	Word problems to encourage estimation (Grades 4-6). Shows students step-by-step process for estimation if they get the answer incorrect	@MsAmyPepper
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	improper fractions, and mixed numbers;	
Fractions App Math Learning Centre	This is an app called “Fractions” from “The Math Learning Centre”: https://www.mathlearningcenter.org/resources/apps/fractions. The app helps students practice adding, subtracting, multiplying and dividing fractions. After trying it, I found it is a really great app for representing fractions! Teachers could use this while teaching Number Sense and Numeration and doing examples involving fractions. There is a tool for easily representing fractions in either a pie format or a rectangle format. This is great for visual learners, as students can easily see and compare fractions. Students could also use an inquiry approach with this app and explore for themselves what fractions look like when represented in a visual way. On the same website, there are also a number of different manipulatives that can be downloaded for free and will help students with numeracy skills. They can be found here: https://www.mathlearningcenter.org/resources/apps. Teachers could put these up on a SmartBoard to do a demonstration or could let students explore and try for themselves!	@KBrown_TLDSB
Loot Pursuit: Pompeii	This iPad app combines history and math, making it a great cross-curricular option! Students solve math problems on algebraic thinking, fractions, geometry, number system, or ratios and proportions. They select the level they are comfortable working at and are given a comic strip about Pompeii and needing to be told the problems to uncover artifacts. They can learn about the artifacts as well while they solve the equations.	Daniella D’Ambrosio
EQAO	A great and useful document that elaborates on EQAO style questions. A great resource for preparing grade 5 and 6 students as well as a great resource for diagnostic assessments for grade 7 students.	@Pat57225795
MPower	MPower is a website from TVOKids that builds foundational math skills and inspires a love of math. It is	Jake Bernatz

	for students from K-6 and focuses on towns throughout Ontario.	
https://www.reflexmath.com/	Reflex helps students of all ability levels develop fluency with their basic facts in addition, subtraction, multiplication, and division.	@4msfinlayson
https://cemc.math.uwaterloo.ca/resources/invitations-to-math/NumberSense-Grade4.pdf https://cemc.math.uwaterloo.ca/resources/invitations-to-math/NumberSense-Grade5.pdf https://cemc.math.uwaterloo.ca/resources/invitations-to-math/NumberSense-Grade6.pdf	Waterloo math resources NS Strand Grades 4,5 and 6.	K Howard
Netmath https://www.netmath.ca/en-ca/learn-more/	Netmath is a great resource, but it is not free, so it would have to be purchased by a school or board. Students each have an account, and the teacher assigns them homework. The students receive immediate feedback, and the teacher is given a record of their achievement. Plus, there are lots of colours and pictures and many of the homework tasks feel like a game. Available for grades 3-11.	@MlleKHughes
NRich https://nrich.maths.org/public/leg.php?group_id=22	NRich is a resource that provides a variety of activities appropriate for the Junior student on the topic of Numeracy. This resource is useful for all Junior learners.	@MissDonaldson_
Parent Guide - Doing Mathematics with Your Child http://www.edu.gov.on.ca/eng/literacy/numeracy/parentguidenumen.pdf	The Ministry of Education released a parent guide titled "Doing Mathematics with Your Child" to help children aged kindergarten to grade 6. This guide includes suggestions for all five math strands, and these suggestions involve tips and activities that they can implement in the home environment. The guide is also divided by grade, and includes links to various online resources.	@mslortie https://sites.google.com/view/mslortie/home
https://www.education.com/game/eins-teins-brain/	This game focuses on decimal numbers and helping students to identify the tens and hundreds spots and how to express whole numbers as well	@MissRuetter

"Einstein's Brain" Game	as decimal numbers. This game relates specifically to the Grade 4 and Grade 5 "Quantity Relationships" expectations of the Number Sense and Numeration strand.	
http://www.mathwire.com/games/numbsensegames.html	This website has instructions and printables for Contig which requires students to roll dice and use different combinations of numbers to add, subtract, multiply and divide their way filling out their card bingo style. Great for mental math and looking at the relationships between numbers. This could also be used as an introduction to order of operation. For example, a student needs a 30 to complete their card or line and they roll three 5's. They'd have to do mental math to determine that $5 \times 5 = 25$ and $25 + 5 = 30$ which is the number they need. $(5 \times 5) + 5 = 30$	Geordie Thompson
https://www.netmath.ca/en-on/	This website can be used for all strands from grade 3 to 11. You can sign up your entire class, assign homework and follow the progress of your students. It follows the curriculum also	@brrain
https://www.k5learning.com/free-math-worksheets/sixth-grade-6	This website has printable worksheets for all math topics and grade K-6. I wonder (haven't totally looked into it) if there will be a subscription cost associated with this website.	@Miss_Michie
https://mathies.ca/activitiesTogether.html	Working in Number Sense (WINS) activities are designed for parents to engage with their child using the mathies learning tools and games to build knowledge and skills in Number Sense and deepen understanding of mathematical concepts. Use mathies Learning Tools Tip Sheets for reference on how to use the tools. Representation Cards are used for some activities. (Looks like Junior grades)	@MmeMichelleScot
https://www.youtube.com/watch?v=cL8bwSiZaE	This is a very useful video to use in a French Immersion setting and can help to instruct and to reactivate prior knowledge regarding the conversion of improper fractions into mixed numbers and vice versa.	@ DanielMacLean14

https://www.ashleigh-educationjourney.com/5-strategies-develop-number-sense/	These are just some strategies to help students learn basic numeracy skills such as multiplication, division, etc.	@milleprus @summerleitch
https://www.youtube.com/watch?v=26nJw1Ko4-A	Silly song about having to line up decimals. Gets students excited but also serves as a great way to remind students.	@mmebuttigieg
Greg Tang Math.com https://gregtangmath.com/satisfaction	This website has so much to offer. Not only does it have a “store” where you can purchase worksheets or table stations for fractions. But it also has free games that help students compare and sort fractions, challenging them to see if they can get faster each time.	@MsHeyens
https://on.mathgames.com/ https://on.mathgames.com/decimals	A Math gaming site where students can search by grade and skill. You can also search by standard and it has a place for games called the arcade and worksheets available for practice. There is a parent/teacher section for assessments, workbooks and report cards. represent, compare, and order whole numbers to 10 000, using a variety of tools represent, compare, and order whole numbers and decimal numbers from 0.01 to 100 000, using a variety of tools represent, compare, and order whole numbers and decimal numbers from 0.001 to 1 000 000, using a variety of tools	@AzzanoLuca
https://www.prodigygame.com/	Prodigy is a free adaptive Math game that integrates common core math style into a fun game that students love playing. Along with game based learning it provides teachers with a set of reporting and assessment tools that allows them to identify trouble spots, differentiate instruction and manage class time effectively.	@Nancy3Y5
https://www.topmarks.co.uk/maths-games/hit-the-button	This is a fun game to help students practice on their multiplication and division facts. The game covers multiplication and division questions from 1-12 and has a timing function. The game also has options that can focus more on specific areas like square numbers, halves, doubles, and number bonds.	Paula
EduGains Fractions Activities	Introductory Fraction activities using either fraction strips or towers. Can be done with online or offline	David

	resources. There are a number of selected fraction based activities and questions along with rationale behind use of the manipulatives. There are a number of additional resources on the page as well.	
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Number Sense and Numeration, Grades 4 to 6, Addition and Subtraction Guide	This is a practical guide for teachers. This guide provides grade 4,5 and 6 Number Sense and Numeration lessons, with activity and instruction examples for various units, which cover the curriculum expectations. This guide also includes different accommodation and modification of lessons for students with special needs.	Cassandra Blog
Splat!	An interactive number sense strategy that can be used at any grade level. Students are shown representations of numbers, where part of the representation is hidden, Students are asked to reason through how many are hidden.	Jaime https://sites.google.com/ocdsb.ca/msmcdonaldsclass
Mr Elementary Math	This is a blog created by an educator. He offers many different resources and ideas through his blog for elementary math. The link here directs you to activities and routines that support number sense understanding in students. There is a focus on decimals, fractions, and whole numbers, making this appropriate for grades 4-6. The activities can be easily adapted and modified!	@SzydowskiAlex
High Impact Instructional Practices in Mathematics http://www.edu.gov.on.ca/eng/teachers/high-impact-instruction-math.pdf	This is a link to a document published by the Ministry of Education to support the newly released 2020 Math Curriculum. It offers tips and best practices for a variety of instructional strategies for delivering the new curriculum.	@StmChem (Fran)

BrainQuake Math	BrainQuake Math is a web-based math puzzle game (and iOS and Android app) that deals with developing number sense. At the start, students are given brief directions about turning their small gears either left or right. This then rotates	@BelzileAimee
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	the large gear, and when students land on the correct number, they get a key. Getting all of the keys frees a Wuzzit. Freeing the Wuzzit gets the students a star, but students can get up to three stars and more points if they solve the puzzle with the fewest possible moves. There are three stages, each with 25 levels. In each of the stages, levels start off easily and increase in difficulty. Filament Games provides a teacher dashboard, which tells you what levels students have completed as well as what skills those levels relate to.	
https://www.mathplayground.com/fractions_compare.html	Simple fraction comparison game for students to practice comparing like and unlike fractions	@MsHMcK
https://mathclips.ca/swfPlayer.html?swfURL=tools/WholeNumberComparisonTool.swf&title=Comparison%20Tool	(Found on mathies.ca- Learning Tools) WHOLE NUMBER COMPARISON TOOL This tool allows students to compare whole numbers up to 1 000 000 using words, symbols and points on a number line Grade 4, 5, and 6- Expectation B1. Number Sense	@missdaleyeddu
Toon Math https://play.google.com/store/apps/details?id=com.closeapps.mathrun&hl=en_CA&gl=US	Toon Math is an interactive action game that supports number sense and numeration. Students can practice addition, subtraction, multiplication, and division while enjoying the online game. In the game, all your friends are kidnapped and are taken to the Halloween Town (Perfect for October), and you have save them before they turn into scarecrows. The game is about testing math skills and improving them and the characters will continually run and solve various math challenges. This game is suitable for almost any grade level.	@MissBKavanaugh
https://www.otffeo.on.ca/en/wp-content/uploads/sites/2/2015/05/Grade-5-Three-Part-Lessons.p	Ontario Teachers Federation has multiple wonderful resources. When I was reviewing the lesson plans at the link provided I got excited to adapt and teach them!	Dawn thomson

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MathUP Grades 1-8	MathUP is a math resource with strategies for understanding mathematical concepts and provides learning resources for teachers and administrators. This program allows teachers and principals to create a classroom enriched with math culture. Marian Small is the creator of this resource.	Nancy Driscoll
https://www.youtube.com/watch?v=Uj3_KqkI9Zo&ab_channel=TED-Ed	This is a great video that prompts higher level thinking related to infinite numbers. Would go well with grade 6 understanding of decimals.	Jay Cudmore
https://www.windsorpubliclibrary.com/learn/index.php/grade-1-8/grade-5/grade-5-number-sense-numeration/	This is a great list of Grade 5 resources for Number Sense and Numeration. There are e-books, videos, articles, and games/activities to help with skills practice in Number Sense.	@ms_a_meeks
https://www.khanacademy.org/math/ab-sixth-grade-math/ab-number	This resource includes a Number Sense resource for Grade 6. There are explanations, videos, and tasks about place values and decimals; prime numbers, factors, and multiples; mixed numbers and improper fractions; ratios and percentages; integers; multiplication and division; and properties of numbers and order operations.	@vlajkovlara
https://mrelementarymath.com/category/lets-get-to-the-math/number-sense/	This resource is the website of a grade 5 teacher who shares his insight into teaching math. He specifically focuses on number sense in this website and has many creative ideas and activities to help students develop their number sense abilities.	Denver Geelen

