

## Online Math Resources for Families – *INTERMEDIATE* Grades

**Knowledgehook** is an online tool designed to guide students through interactive questions. They gain a deeper understanding of mathematical concepts and explore different pathways to solving problems.

<https://app.knowledgehook.com/app/Login>



**Access instructions here:**

<https://tinyurl.com/KnowledgehookFamiliesOverview>

### **GRADE 7**

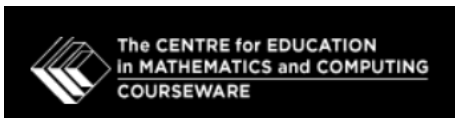
Class Code: **tap6776**

### **Grade 8**

Class Code: **owl3349**

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**The University of Waterloo CEMC** courseware materials feature lessons, interactive activities, enrichment challenges, and unlimited opportunity for practice with feedback.



The courseware is online, free to use, and does not require registration. Start learning from a world-class group of educators today!

### **Grades 7 and 8**

<https://courseware.cemc.uwaterloo.ca/27>

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Launched in 2007, and initially developed by the Ontario Ministry of Education, **Mathify** has provided students across the province with free, interactive online math tutoring for over 10 years. The platform combines an interactive shared whiteboard and drawing tools, math experts, and a safe space to ask questions – over voice and chat.



### **Grades 7 to 10**

<https://tvomathify.com/about-us>

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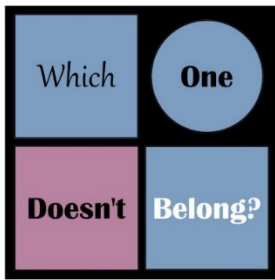


**Estimation180** are curated images of estimation challenges. These challenges can help students to improve both their number sense and problem solving skills.

<http://www.esteemation180.com/>

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**Which One Doesn't Belong?** is a collection of images where students are asked to reason through which image does not



belong. Powerful conversations occur as multiple reasons are possible and we see that any given image may not belong. What becomes the focus is the reasoning offered to support a viewpoint.

<https://wodb.ca/>



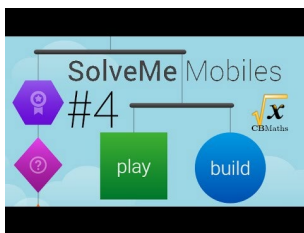
**Would You Rather?** is a collection of images that presents students with two possibilities to choose from and to reason through their answer.

<https://www.wouldyourathermath.com/>



**Visual Patterns** are images that provide a sequence of pictures or geometric objects, created based on some rule. Students are asked to reason and prove what the rule might be.

<http://www.visualpatterns.org/>



**SolveMe Mobiles** are hanging sculptures made of shapes, strings and beams. These beams and strings are weightless, but the shapes have weight. The goal is to figure out what the weight is of each of the shapes to make the mobile balance.

<https://solveme.edc.org/mobiles/>



**FractionTalks.com** provides images that foster conversations and creative thinking about fractions.

<http://fractiontalks.com/>



**Money and Youth** is an online tool that consists of 14 modules that students can download.

Topics covered: exploration of one's values, making good decisions, challenges and opportunities of getting money and then spending, saving, borrowing, and protecting money and the things we acquire in life that are important to us.

**Grades 7-12**

<https://moneyandyouth.com/>

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# Money Laughs

Learning About Money Doesn't Have To Be Boring!

A series of short vignettes produced for CFEE by Just For Laughs Gags focusing on money and highlighting money challenges, along with supporting tips and teaching material.

**Grades 4-8**

<https://moneylaughs.com/>

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The goal of **Inspiring Your Child to Learn and Love Mathematics** is to inspire all families of elementary students to build a love for math. It offers information and support to nourish the work families currently do as the first teachers of their children.

<http://www.parentengagementmatters.ca/inspiring-your-child-to-learn-and-love-math>

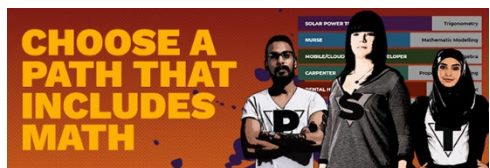
## **Module One**

[General Overview: Count Yourself In](#)

## **Module Five**

[Intermediate Grades \(7, 8\): Countless Opportunities](#)

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**Choose a Path that Includes Math** is an online tool kit that is a comprehensive, user-friendly, and inspiring source of information for Ontario teens and parents who are exploring choices for high school math courses.

<http://www.parentengagementmatters.ca/choose-a-path-that-includes-math>

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