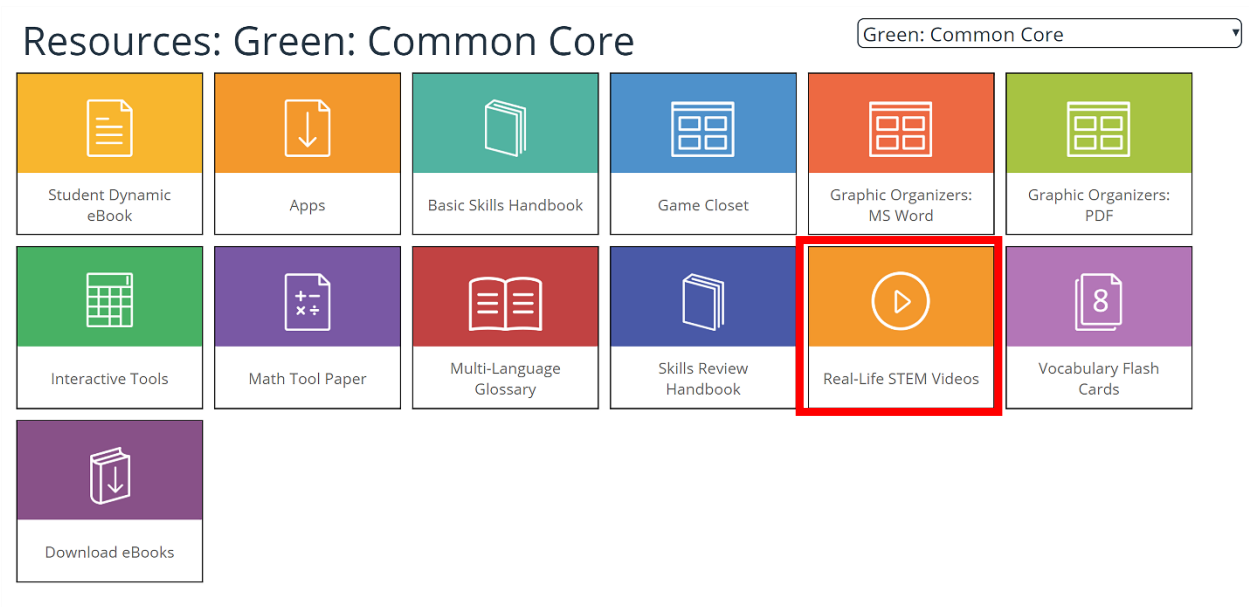


Every chapter in the *Big Ideas Math* program contains a Real-Life STEM Video allowing students to further engage with mathematical concepts and relate them to real life scenarios. Students learn about the Parthenon, natural disasters, solar power, and more! The STEM Videos are available in the online student resource library, the online teacher Course Resources and in the eBook.

To find STEM Videos in the online Student resource library:

1. Login to your student account and find 'Real-Life STEM Videos' in the Resources. The STEM Videos for that program will appear.



Common Core Middle School - STEM Videos

Green

Chapter 1: Filling Piñatas	WATCH VIDEO
Chapter 2: Space is Big	WATCH VIDEO
Chapter 3: Shadow Drawings	WATCH VIDEO
Chapter 4: Golf Course Maintenance	WATCH VIDEO
Chapter 5: Human Circulatory System	WATCH VIDEO
Chapter 6: Tuning a Guitar	WATCH VIDEO
Chapter 7: Designing a CubeSat	WATCH VIDEO
Chapter 8: Packaging Design	WATCH VIDEO
Chapter 9: Daylight in the Big City	WATCH VIDEO
Chapter 10: Choosing a Dog	WATCH VIDEO

To find STEM Videos in the online Teacher Course Resources:

1. Select your program and book. The STEM videos will show every video available for the program.



Course Resources

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Graphic Organizer	Intervention Activities	Math Tool Paper
Multi-Language Glossary	My Dear Aunt Sally Game	Pacing Guides
Parent Newsletter	Performance Tasks	Pupil Edition
Record and Practice Journal	Resources by Chapter	Scavenger Hunt
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	Vocabulary Flash Cards	

2. If you are looking for a certain STEM Video, select your book and chapter. The video for that chapter will populate

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STEM Videos

Real-Life STEM Video: Filling Pinatas (Section 1.5)	 VISIT SITE
STEM Video Performance Task: MS Word	 DOWNLOAD
STEM Video Performance Task: PDF	 VISIT SITE

To find STEM Videos in *Student Dynamic eBook*:

The STEM Videos can be found as QR codes in the eBook. Select the QR code to be directed towards that STEM Video.

EXAMPLE 4 Real-Life Application

- * 18 bottles of nail polish
- * 24 pairs of earrings
- * 42 lollipops



You are filling piñatas for your sister's birthday party. The list shows the gifts you are putting into the piñatas. You want identical groups of gifts in each piñata with no gifts left over. What is the greatest number of piñatas you can make?

The GCF of the numbers of gifts represents the greatest number of identical groups of gifts you can make with no gifts left over. So, to find the number of piñatas, find the GCF.

$$\begin{aligned} 18 &= 2 \cdot 3 \cdot 3 \\ 24 &= 2 \cdot 3 \cdot 2 \cdot 2 \\ 42 &= 2 \cdot 3 \cdot 7 \end{aligned}$$

$2 \cdot 3 = 6$ Find the product of the common prime factors.



The GCF of 18, 24, and 42 is 6.

So, you can make at most 6 piñatas.

On Your Own

7. Write a pair of numbers whose greatest common factor is 10.
8. **WHAT IF?** In Example 4, you add 6 more pairs of earrings. Does this change your answer? Explain your reasoning.

Now You're Ready
Exercises 23–25

BIG IDEAS MATH.

Real-Life STEM Video: Filling Pinatas (Section 1.5)

