

Grade 4 Stage 2:

KWL & Active Viewing Questions



What do you already **know** about simple machines, and food chains? What do you **wonder** about how machines are used for grain farms and about the producers and consumers of pizza? Keep adding to this KWL chart when you have new wonderings and as you learn about machines and food chains during this STEMterprise stage.

KNOW	WONDER	LEARN

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Video 1 - Slide 6 - [Finding out Stuff - Machines](#) (watch 14:25-19:12)

Watch the video about these 6 simple machines. What examples does the video show of each simple machine?

Simple Machine	Video Example
Lever	
Screw	
Pulley	
Incline plane (ramp)	
Wheel and axle	
Wedge	

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Video 2 - Slide 6 - [Ask a Farmer: What is an auger?](#) (1:17)

What simple machines do you notice in this video? The simple machines can be part of the auger or other objects in the video.

Video 3 - Slide 8 - [Science Max - Simple Machines - Full Episode, Pulleys](#) (12:44 - 13:25).

Write a question for a classmate about an important idea or fact about pulleys from this video.

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Video 4 - Slide 9 - [Science North: Gears - For Teachers](#) (3:50).

Which gear makes it easier to bike uphill and why?

What is used as an example of a complex gear?

Video 5 - Slide 10 - [The Story of Flour - Dig In!](#) (2:02).

What are the steps in making flour? Write them in the box below.

What do farmers worry will damage their wheat?

1. Seed ...
2. ...
3. ...
4. ...
5. ...

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Video 6 - Slide 10 - [1958 Gears And Where They Fit In - Crabble Mill Water Mill](#) (5:25).

Compare how flour was made differently in the early 1800's to today?
How are gears used in the mill?

Video 7 - Slide 12 - [Food Chains and Food Webs](#) (3:03).

3 things I learned are:

2 questions I have are:

1 connections I made is: