

Sports Hall STEM Club

12/8/18

Good morning students!

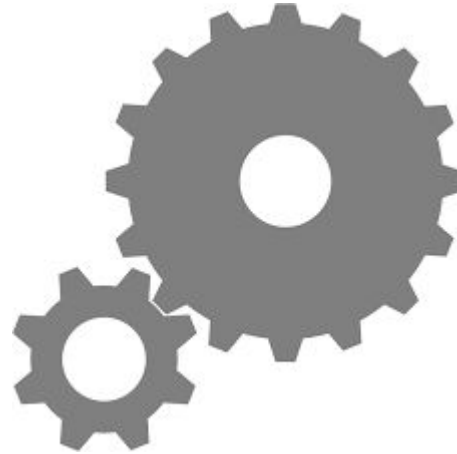
**Today's themes are: The
Shaft Wheel and the Steer
Wheel!**

*Read p.27 (blue book) out loud with a
partner!*

Questions, p.27

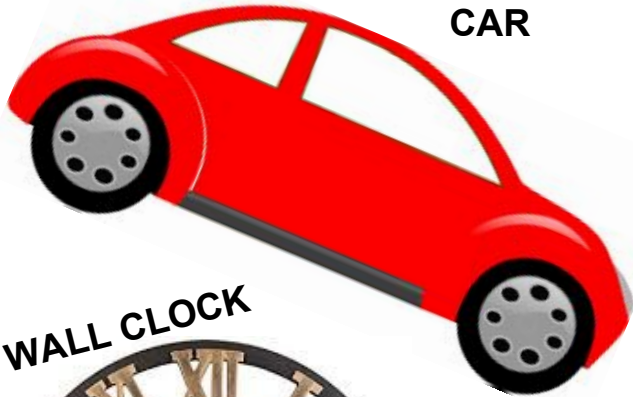
Comic #1

- **How can we control a car using the steering wheel?**
- **What is a Gear?**



Machines That Use Gears for Motion

CAR



WALL CLOCK



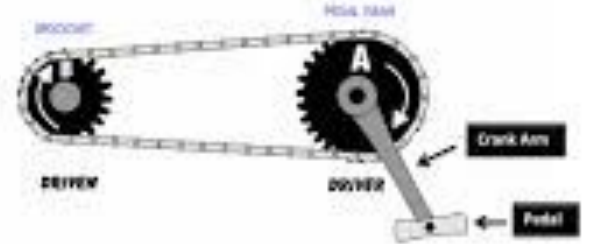
The wall clock gear system is controlling the motion of the hands of the clock



FORKLIFT --
gears control the motion of the arms of the fork lift

BICYCLE

1. Consider the picture of the bicycle gear system, and the picture of a bicycle, both shown below.



As the rider rotates the pedal and turns the crank arm, the pedal gear rotates, forcing the rear gear (sprocket) to rotate, which in turn, rotates the rear tire of the bicycle -- propelling the bicycle and rider forward. To understand how this system affects the movement of a bicycle,

LET'S GET TO WORK!

3 Groups

- Scratch Programming Team
- Robotics Team
- Khan Academy Team



Scratch Programming Team -- Create an animation about things that use gears to move!

- Create a Scratch Animation about something you learned today about gears and changing motion
- **USE YOUR CREATIVITY**
 - **Do NOT only use text blocks to describe what you learned, we want to see your creative animation about what you learned!**

Robotics Team -- Build Power Spin Bot (blue book)!

- Make Spin Bot on Pg. 28 of your blue books-- Discuss its use of gears for motion!

Khan Academy

Begin Practicing Math Subject on the Khan Academy App -- Ask anyone on the STEM Team If you need help and let us know when you start a new lesson, and if you need any help.



Now it's time to swap teams everyone! Break down your robots and clear your Scratch programs!