Name: _____ Date: _____



As you move on with your first build, using gears, fill in the appropriate word (different / same) about the direction of the motion.

System	Gears	Direction
A	2	
B	3	
C	4	
D	5	

What are your inferences?



Move on to the 2nd build. Explain the blocks from the code you wrote, and experiment.



Create an inclined plane and try to make your vehicle move uphill. What do you observe?

Try to change the place among the gears. What do you observe now?

What is your conclusion?

When we use gears,

what we gain in _____ we lose in _____



Move on to the 3rd build and study how the screw works. Then, answer the following questions:

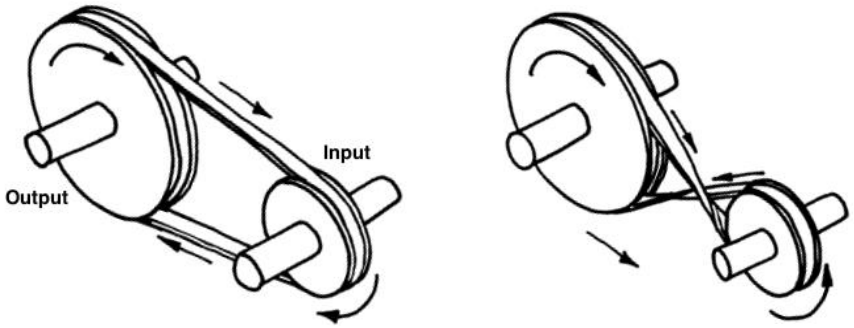
A. How many rotations does the screw need to do, to turn the gear once? ___

B. Can the system rotate from the side of the gear? YES / NO

C. Do you know any tool that uses this mechanism? _____



Move on to the final build, where you use pulleys. Design how the motion is transmitted in the two occasions you see in the sketches. What is the direction of the motion in these occasions?



See that our build is moving in reverse direction. There are two coding solutions to solve the problem. Can you think of them?