

# Engineering Puzzle Activity!

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1. How many collars are visible in the below picture?



Multiply this number by 9 and color that number BLUE.

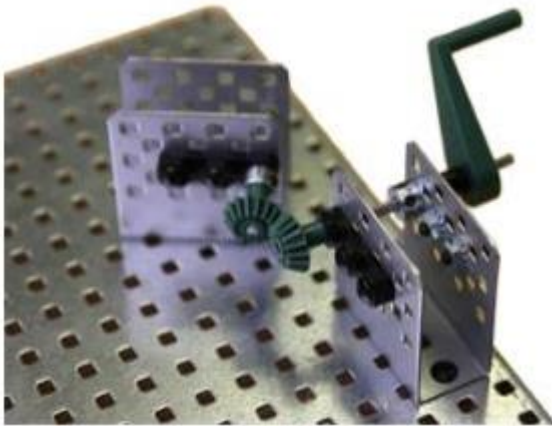
2. Will the output gear turn in the same direction as the input gear or opposite direction?



Same Direction  
COLOR THE NUMBER  
15 BLACK

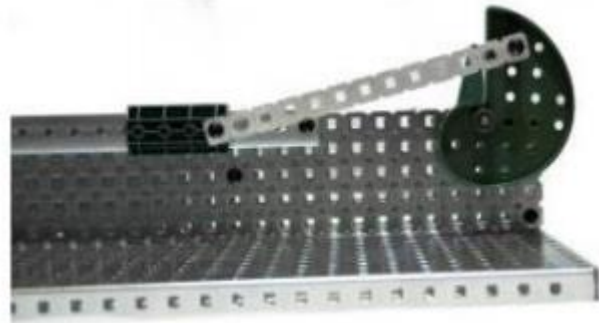
Different Direction  
COLOR THE NUMBER  
15 YELLOW

3. How many bevel gears are in this picture?



Multiply this number by 8 and color that number GREEN.

4. What is the name of this mechanism?



Take the number of letters in its name, add 3, and color that number PURPLE.

5. The crank and slider mechanism is an example of \_\_\_\_\_ motion.

Color the number of letters in this word RED.

6. What was the maximum number of collars allowed to be used in the Solar Collector Survival Build Project?

Multiply this number by 2, then add 3. Color this number GRAY.

7. How many slashes are in a single line comment on ROBOTC?

Multiply this number by 7 and color that number SKIN COLORED.