

# REC for Cortex

## 8.3F Activity: Testing Chain and Sprockets - Fundamental

Name: \_\_\_\_\_ Class/Period: \_\_\_\_\_ Date: \_\_\_\_\_

### Question Sheet

**Question 1**

In section 8.3.2, what is the gear ratio for a 18T to 18T sprocket and chain drive?

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**Question 2**

If the driver sprocket is turning in a clockwise (CW) direction, which way is the driven sprocket turning?

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**Question 3**

What is the gear ratio of a 6T to 18T sprocket and chain drive?

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**Question 4**

Would this drive train result in an increase in speed or an increase in torque?

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**Question 5**

What gear ratio is produced by replacing the 6T sprocket with a 12T sprocket?

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**Question 6**

In step 6 of section 8.3.3, is the 18T sprocket effective?

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**Question 7**

In step 8 of section 8.3.3, is the 6T sprocket effective? In which position?

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**Question 8**

In step 15 of section 8.3.3, how many turns did the center sprockets turn?

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**Question 9**

How many turns did the upper right sprocket turn?

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### Question 10

In what kind of drive train would you find sprockets daisy chained together?

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### Question 11

Would it be possible to drive all three axes along the diagonal with gears?

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