Name: _____ Group: _____ Date: _____

# Mechanisms that transform motion

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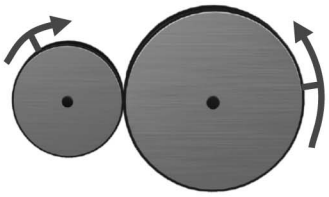
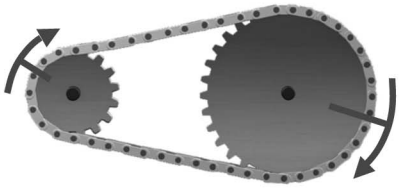
**1.** Which of the following mechanisms bring about a change in motion? Check the correct examples.

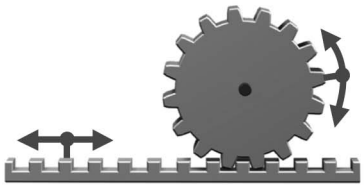
A ☐



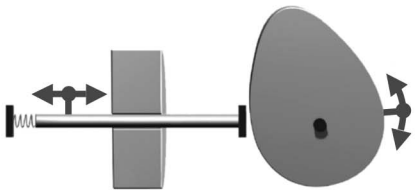
D ☐



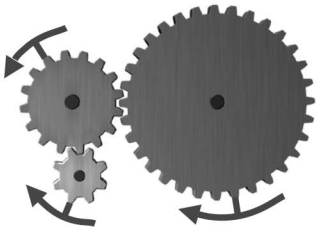
B ☐



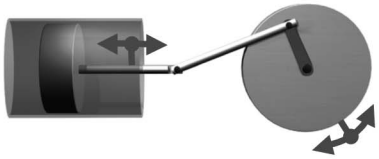
E ☐



C ☐



F ☐



**2.** Look at the illustrations in question 1 and find the ones that show the systems listed below. Put the appropriate letters (A to F) on the lines provided. In addition, use the word *rotational* or *translational* to complete the sentences describing the systems.

**a)** Illustration of a cam and follower system: _____.

_____ motion of the cam is transformed into _____ motion of the follower.

**b)** Illustration of a rack and pinion system: _____.

_____ motion of the rack is transformed into _____ motion of the pinion.

**c)** Illustration of a slider-crank system: _____.

_____ motion of the crank is transformed into _____ motion of the slider.

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# Mechanisms that transmit motion

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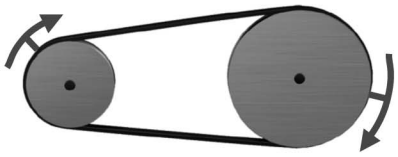
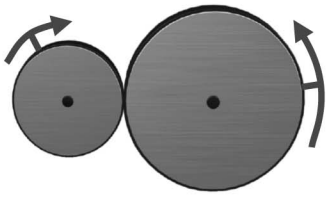
**1.** Which of the following mechanisms transmit motion?
Check the correct examples.

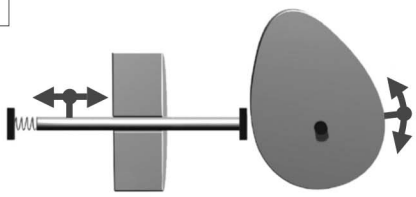
**A** ☐



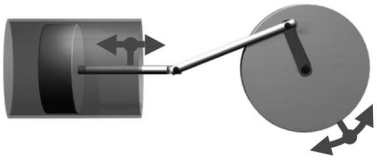
**B** ☐



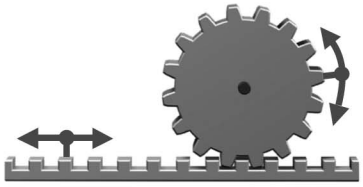
**C** ☐



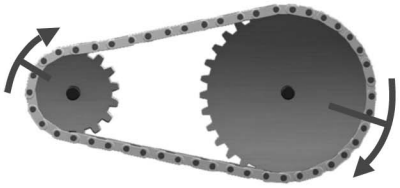
**D** ☐



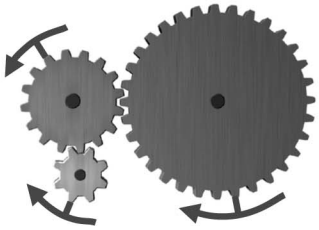
**E** ☐



**F** ☐



**G** ☐



**2.** Look at the illustrations in question 1 and find the ones that show the systems listed below.
Put the appropriate letters (A to G) on the lines provided.

**a)** Friction gear system _____

**b)** Simple gear system _____

**c)** Chain and sprocket system _____

**d)** Pulley and belt system _____