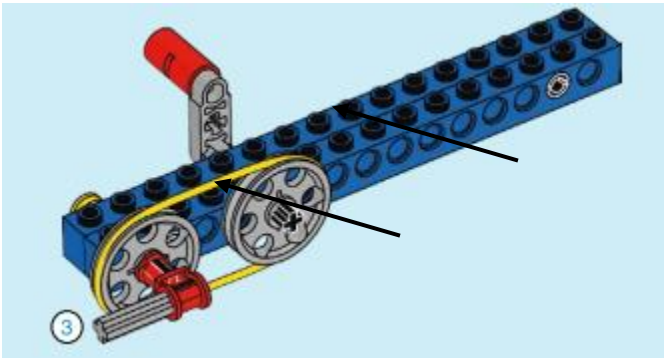
Name: _____ **Date:** _____



Build model C1. Note in the picture below which pulley is the driver and which is driven one. Do the two pulleys move in the same or the different direction? Do the two pulleys move with the same or different speed? Measure how many rotations the pointer does for one rotation of the crank.





Modify your construction according to model C2. Do the two pulleys move in the same or the different direction? Do the two pulleys move with the same or different speed? Measure how many rotations the pointer does for one rotation of the crank.

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Can you end up in a conclusion from your observations?



Modify your construction according to model C3. Do the two pulleys move with the same or different speed? Measure how many rotations the crank does for one rotation of the pointer.



Modify your construction according to model C4. Do the two pulleys move in the same or the different direction? Do the two pulleys move with the same or different speed? Measure how many rotations the pointer does for one rotation of the crank.



Modify your construction according to model C5. What can you see? Do the two pulleys move with the same or different speed? Measure how many rotations the pointer does for one rotation of the crank.



Modify your construction according to model C6. We have now made a system of pulleys. Measure how many rotations the crank does for one rotation of both pointers (study each pointer separately).

Can you end up in a conclusion from your observations?

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Modify your construction according to model C7. What can you see about the speed and the direction of the small and the big pulleys?

For the rest of your time, you can build your own construction that has pulleys.