## Names: \_\_\_

- 1. Before running your program, predict what will happen when it starts. Which was will the gears turn? (Have Mr. Gunkelman sign off on this BEFORE you do it>)
- 2. Which way did the gears turn?
- 3. Is this a 1:1 gearing? Does it gear up or gear down?
- 4. What is the gear ratio?

2<sup>nd</sup> time

- 5. Before running your program, predict what will happen when it starts. Which was will the gears turn? (Have Mr. Gunkelman sign off on this BEFORE you do it>)
- 6. Which way did the gears turn?
- 7. Is this a 1:1 gearing? Does it gear up or gear down?
- 8. What is the gear ratio?

## 3<sup>rd</sup> time

- 9. Before running your program, predict what will happen when it starts. Which was will the gears turn? (Have Mr. Gunkelman sign off on this BEFORE you do it>)
- 10. Which way did the gears turn?
- 11. Is this a 1:1 gearing? Does it gear up or gear down?
- 12. What is the gear ratio?

## 4<sup>th</sup> time

- 13. Before running your program, predict what will happen when it starts. Which was will the gears turn? (Have Mr. Gunkelman sign off on this BEFORE you do it.)
- 14. What effect do you think the middle gear will have in terms of direction and speed? (Have Mr. Gunkelman sign off on this BEFORE you do it.)
- 15. Which way did the gears turn?
- 16. Is this a 1:1 gearing? Does it gear up or gear down?
- 17. What is the gear ratio?
- 18. This is what I learned about gears, gear ratios, turning direction, and speed.

Mr. Gunkelman