

Name: _____

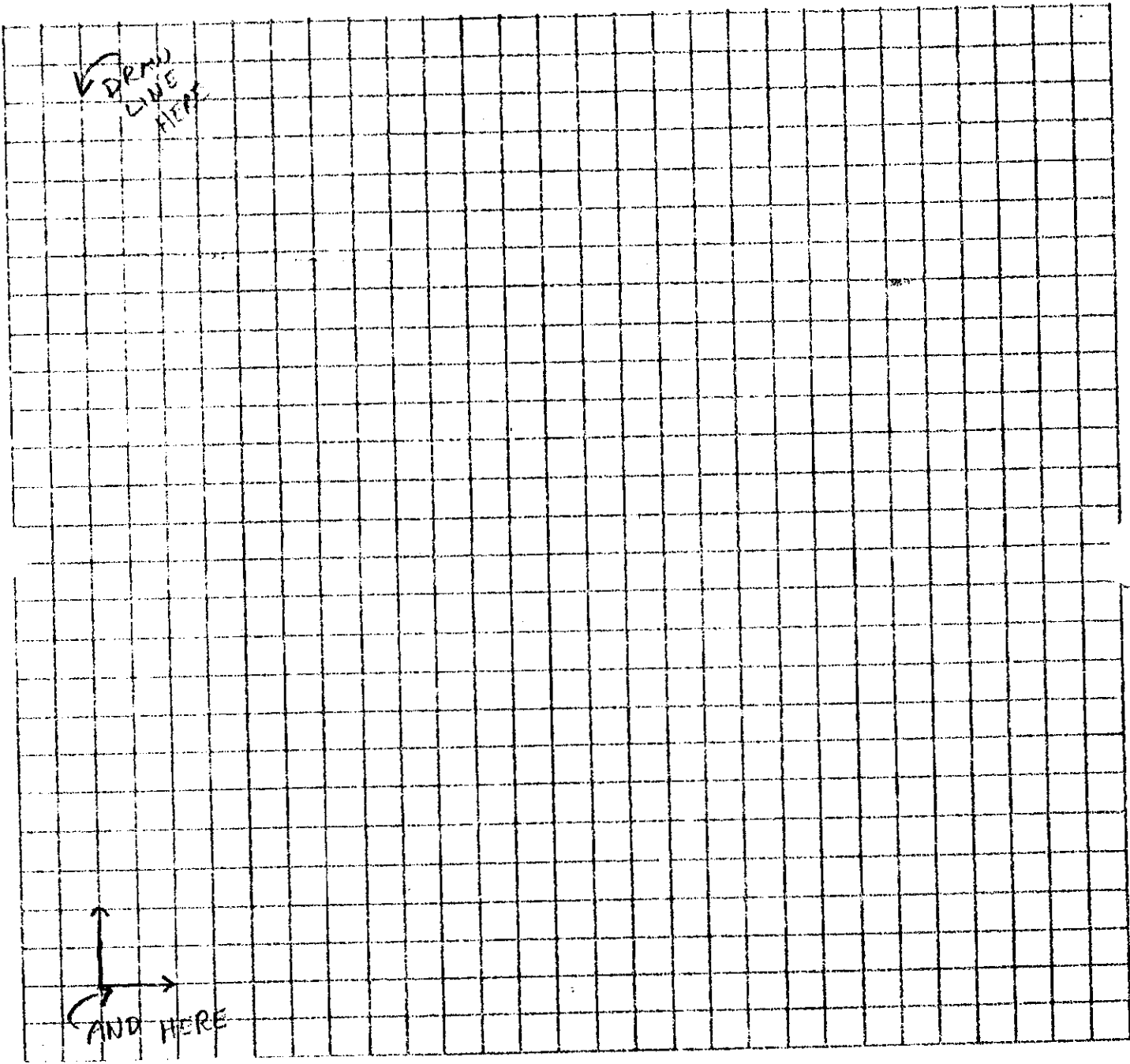
1. The 1st law of motion says that an object in _____ tends to _____
_____ and an object at rest tends to _____
unless acted on by an outside force.
2. The 3rd law of motion says that for every _____.
3. Things slow down because of _____.
4. When you are watching a video, reading out of your textbook, taking notes in your notebook, which Science & Engineering Practice are you using? _____
5. When graphing, which experimental variable goes on the X axis? _____
6. When a paper car is at the top of the track, it has the greatest amount of _____ energy.
7. Speed is _____ divided by _____.
8. _____ is both speed and direction.
9. When I'm doing a science activity in class, I'm doing the Science & Engineering Practice of _____.
10. The line I draw on a graph is called the _____.
11. When drawing a line on a graph, the line should be either _____ or _____.
12. When I was wondering about how to make a gravity cruiser car and figuring out the constraints of making the car, I was doing the Science & Engineering Practice of _____.
13. The rate of change in position of an object is called _____.
14. A force that opposes motion between surfaces is called _____.

COMPLETE the graphing activity on the back side of this page.

8. On the graph paper, graph the following results from a bouncing ball lab. Then answer the questions.

HEIGHT OF DROP (cm)	40	80	100	110	120
HEIGHT OF BOUNCE (cm)	20	62	78	88	95

HINT:
COUNT BY
5'S



What would you predict to be the height of the bounce if the ball were dropped from the following heights?

20 cm _____ 50 cm _____

35 cm _____ 140 cm _____