Further Investigation:

1. Hypothesize which car you think will go the furthest and on which incline setting with which weight.

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1. Look at your documents A-D and collect your data in the chart below.

|  |  |  |
| --- | --- | --- |
| Type of Weight | Incline Plane 1 in (m) | Incline Plane 2 (m) |
| Heavy |  |  |
| Light |  |  |
| None |  |  |

1. Construct a graph of the different distances achieved using the different weights on different incline planes. Provide a Key.
2. Interpret your graph. In 3-4 sentences explain your graph. Be precise and make your explanation meaningful to the lab. What does your data show? Which car did the best and why? Which car went the furthest on which incline slope?
3. What could you place on the track or car to get the big weight to end at 80 m instead of 100m when the incline is set to the 2nd setting?
4. What would happen to the car when no weight was inside the truck? Compare this to the other trials you did with weights.