**Middle School Physics Day 2**

Speed:

Velocity:

**Speed Trap #1 Battery Cars:** Your job is to determine the speed of the cars going forward and backward. We will time them going a distance of 5 feet.

|  |  |  |  |
| --- | --- | --- | --- |
| Car direction | Time | Average Time | Speed |
| Forward | T1= | (T1+T2+T3)/3= | 5ft/Avg T= |
|  | T2= |  |  |
|  | T3= |  |  ft/s |
| Backward | T1= | (T1+T2+T3)/3= |  |
|  | T2= |  |  |
|  | T3= |  |  ft/s |

The Speed limit for little cars is 2mph or 2miles/hour. Did your cars exceed the limit?

Convert the speed from ft/s to miles/hr.

Forward:

Backward:

**Speed Trap #2 Cars on the road:** Your job is to determine the speed of the cars going on the road. We will time them going a distance of 100 feet.

|  |  |  |  |
| --- | --- | --- | --- |
| Direction:  |  Time: |  Speed in ft/s |  Speed in mi/hr |
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