**Noteguide Momentum - Videos 6A Name**

**Videos 6A - Momentum**

What does Momentum mean:

Write down the formula for momentum: (Be sure to write down what all the symbols mean, and their units)

**p =**

Example: What is the momentum of a 145 g baseball going 40. m/s:

Example: 60 kg Fran is running at 4 m/s when she collides with 80 kg Joe head on. They hit and stop dead, so how fast was Joe going?

Whiteboards:

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| 1. What is the momentum of a 22 g swallow going 5.2 m/s  (0.11 kg m/s) | 2. What velocity must a 6.5 gram bullet have for its momentum to be 5.8 kgm/s?  (890 m/s) |
| 3. A bowling ball has a momentum of 43.6 kgm/s when it is going 12 m/s. What is its mass?  (3.6 kg) | Draw a picture of pretty flower here: |