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Project Proposal

Integrative Project in Computer Science and Mathematics 420-204-RE

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Project Ideas:

1. A multi-layered calculator which encompasses the following:
   1. A kinematics/trajectory calculator
2. Quiz which encompasses multiple categories which pull from a question bank to ask the user questions regarding situations in the following categories:
   1. Mathematics
      1. Calculus 1
      2. Calculus 2
   2. Physics which includes:
      1. Mechanics
      2. Waves, Optics & Modern Physics
3. Angry Penguins

A game which uses force of friction and gravity. The user should use a ramp, to change the potential trajectory of the penguin after it goes down the ramp to hit structures.

1. Penguin Physics game like “Learn to Fly”