Task 1 in physics:

s is your student number.

k = s mod 10000.

T = s mod 100.

L = s mod 10.

Significant figures:

1. How many significant figures are there in your T number?

Mechanics:

2. Find velocity and acceleration for one-dimensional motion with the equation x = -k + Lt + Tt2.

3. Calculate the final speed after absolutely inelastic collision of two balls of masses L kg and T kg, moving with velocities s m/s and k m/s respectively.

http://physics16.weebly.com/uploads/5/9/8/5/59854633/inelastic4collision.txt

4. Find Maximum x, Maximum y; find x and y at time = T seconds, for angle of release A = T degrees, initial velocity V0 = T meters per second, x0 = y0 = 0 meters for projectile.

s = 19107016

T = s Mod 100

v0 = T

g = 10

Pi = 4 \* Atn(1)

A = T \* Pi / 180

x0 = 0

y0 = 0

x = x0 + T \* v0 \* Cos(A)

y = y0 + T \* v0 \* Sin(A) - g \* T / 2

MsgBox x

MsgBox y

xmax = v0 ^ 2 \* Sin(2 \* A) / g

ymax = v0 ^ 2 \* (Sin(A)) ^ 2 / (2 \* g)

MsgBox xmax

MsgBox ymax

physics16.weebly.com/uploads/5/9/8/5/59854633/projectile309task2019.txt

Project:

5. Start doing your project.