Random

time, angle

any data that could be a bit to big or too small depending on how you read it that time.

Systematic

Affects all data the same way - not in the error bars

length of string (L), width of dowel, mass of bob

$$V = \frac{d}{t}$$

↶ Systematic

↶ Random

$$\% U_t = \frac{U_t}{t}$$

$$U_v = V(\% U_t)$$

$$U_k = K\left(\frac{U\theta}{\theta}\right)$$

$$\frac{Range}{2}$$

$$U_v = V\left(\frac{\frac{VRange}{2}}{Ave\ Time}\right)$$

$$K = \frac{1}{2} m V^2$$

0.02, 0.016, 0.0066

6.02, 0.03097

Plug into Laggan Pro