**Objective:** Model the relationship between force (*F*) and displacement (x) for a stretched spring (put *F* on the *y*-axis). Phet Hooke’s Law lab found at <https://phet.colorado.edu/sims/html/hookes-law/latest/hookes-law_en.html> . Choose “Intro” from the home screen. In the upper right corner, check “Applied Force”, “Displacement”, “Equilibrium Position”, and “Values”. Use the grabbers to pull the spring.

**Diagrammatical Model: Experimental Design:**

**Data Collection:**

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| ***x***  **(m)** | ***F***  **(N)** |
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**Mathematical Model:**

**Word Model:**