

# RaTeX Physics Lab

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```

4  # // Create a new build
5  r: Ratex = Ratex("main.tex")
6  r.new(
7      doc_class = "article",
8      title = "RaTeX",
9      author = "Tristan Simpson",
10     packages = [
11         "multirow",
12         "cancel",
13         "changepage"
14     ]
15 )
16
17 # // Create a new table element!
18 r.header("Observations", enumerate = False)
19 r.text(r"With such a readable command new LaTeX learners can understand wh
20 r.table(columns = 3, headers = ["Mass ($kg$)", "Height ($m$)", "Force (N)"]
21         "10kg", "11.4m", "108.73N",
22         "20kg", "16.7m", "276.52N",
23     ])
24
25 # // Create a new section!
26 r.header("Who am I?", enumerate = True)
27 r.section(size = 1, margin = 0, items = [
28     Text(r"My name is Tristan Simpson and I'm a Systems Software Engineer!")
29 ])
30

```

- this
- is

- a
- test

## Observations

Using the two provided object we could calculate net force of the bounceback from a mass and a string. By 30kg the string broke after the mass was dropped. The table below describes our group observations.

Mass ( $kg$ )	Height ( $m$ )	Force (N)
10kg	11.4m	108.73N
20kg	16.7m	276.52N

## Procedure

1. The string was attached to the table.
2. The mass was attached to the opposite end of the string.
3. The mass was dropped and the bounceback height was measured.
4. The net force was calculated.