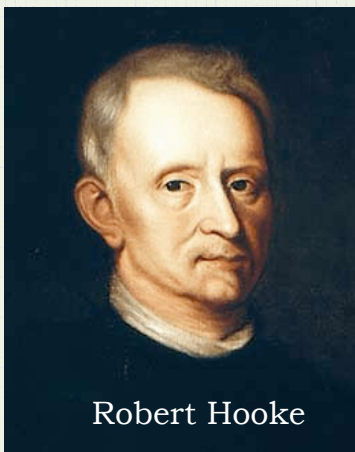


A Common Pattern in Science and Engineering

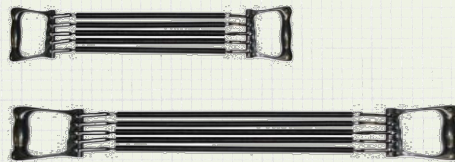
6.00x -- Understanding Experimental Data

Hypothesis: Hooke's Law for Springs



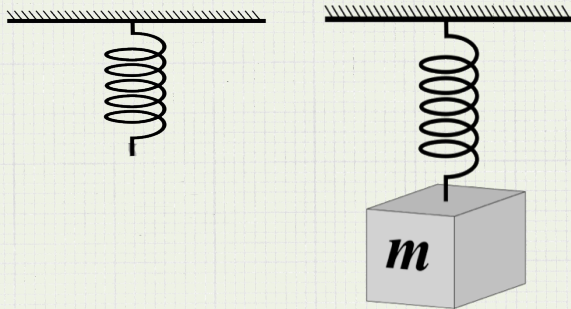
Robert Hooke

*"The power of any
springy body is in
the same proportion
with the extension."*



6.00x -- Understanding Experimental Data

Experiment: apply force, measure extension



6.00x -- Understanding Experimental Data

Process Observations

Distance(m)	Mass(kg)
0.0865	0.1
0.1015	0.15
0.1106	0.2
0.1279	0.25
...	
0.4416	0.9
0.4304	0.95
0.437	1.0

6.00x -- Understanding Experimental Data