



# Teaching Practices for the Bare-Handed Physics Teacher

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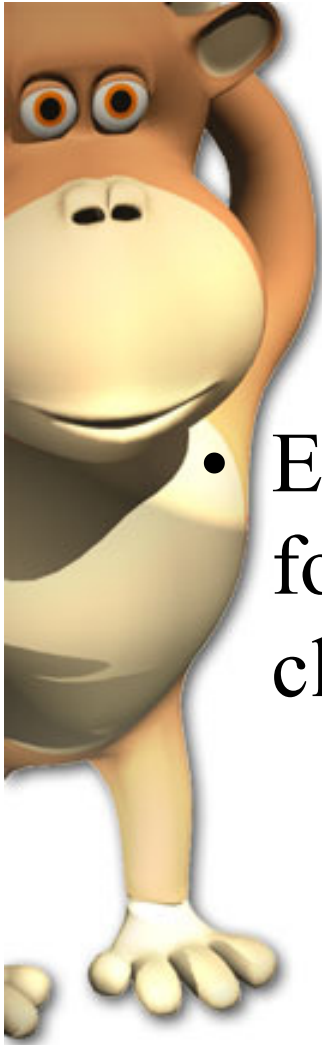




# Some Observations

- TV and the internet can present science concepts in a visual and engaging manner





# Some Observations

- Extra school assignments make it difficult for teachers to be consistently prepared for classes





# Some Observations

- Teacher says: “Physics is in our daily life”
- Students are puzzled why Teacher has brought “so much stuff” to class
- Doubt is sown





# The Barehanded Philosophy

- Motivated by a student's challenge to "really show that Physics is in my daily life" and that no special equipment is required...
- ...Also because there are many times Teacher has really no time to prepare anything...





# The Bare-Handed Philosophy

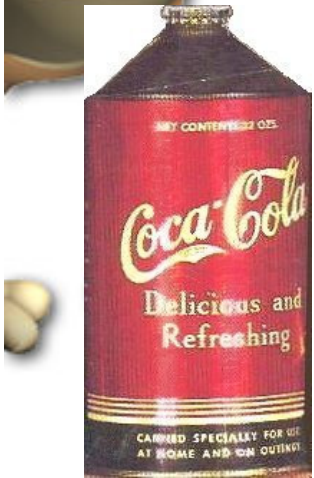
- Daily living is explainable by Physics

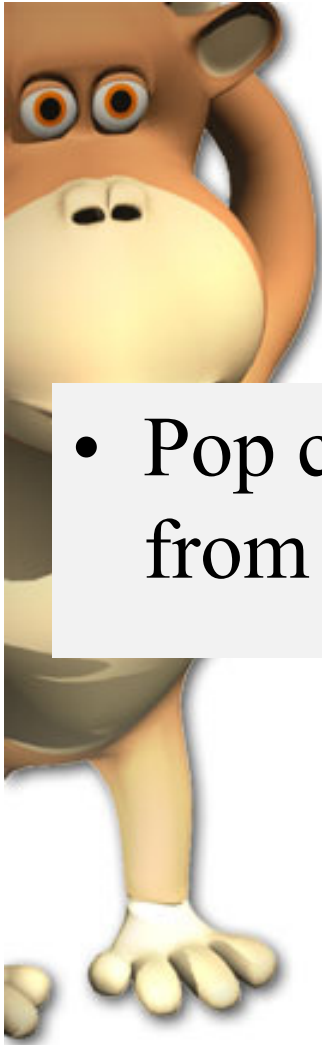




# The Barehanded Philosophy

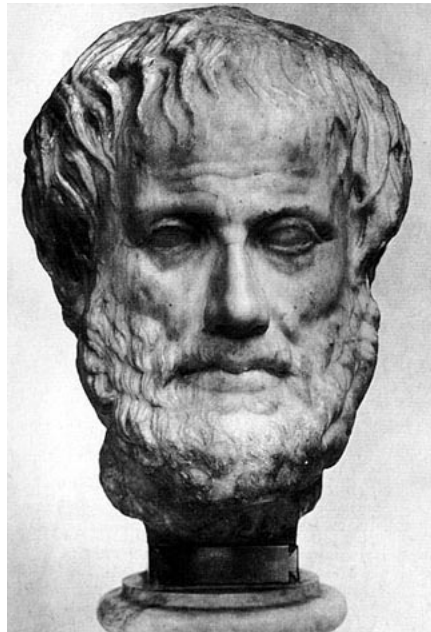
- Features of ordinary things have a Physics explanation





# The Barehanded Philosophy

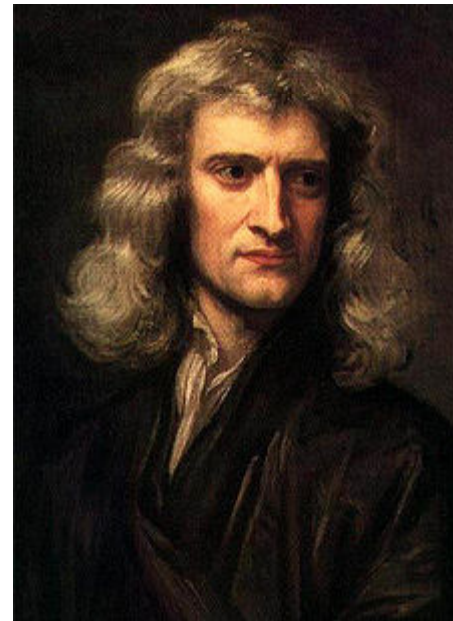
- Pop culture borrows from Physics a LOT





# The Barehanded Philosophy

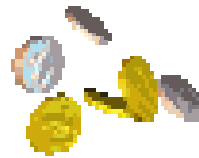
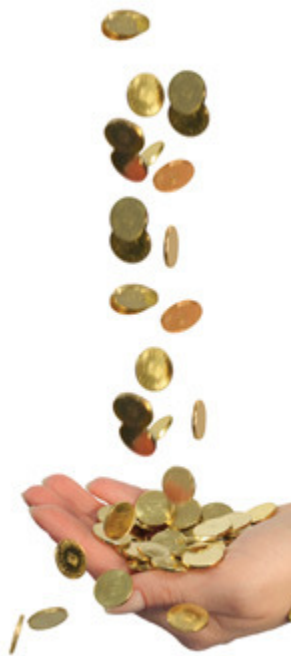
- Much of culture is shaped by the way Physics has progressed





# The Barehanded Philosophy

- Paper and coins can do Physics very well





# The Barehanded Philosophy

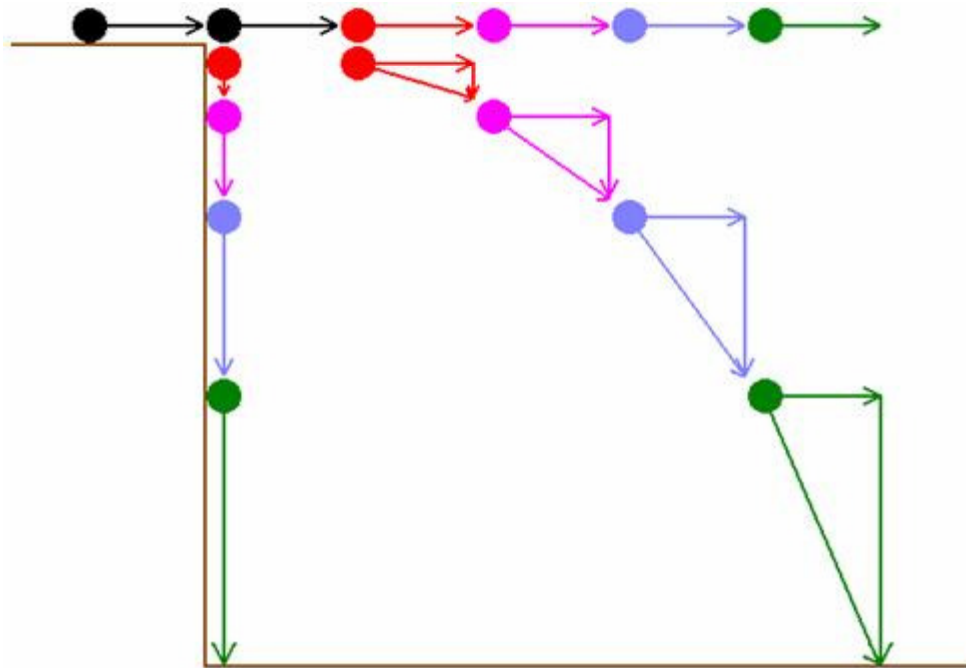
- Even the most mundane things have some Physics in them





# The Barehanded Philosophy

- If I can explain something from Physics to my neighbor, does it classify as “daily life”?





# The Barehanded Philosophy

- Objects from daily life provide interesting analogies in Physics





# The Barehanded Philosophy

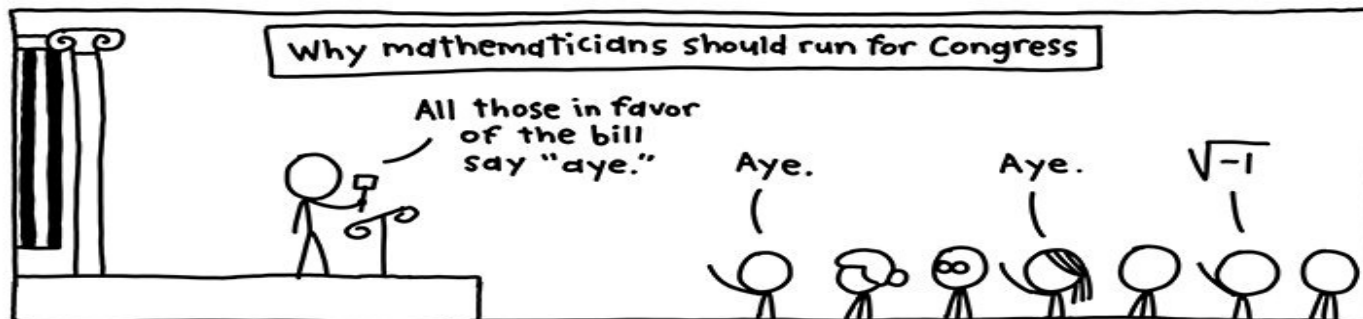
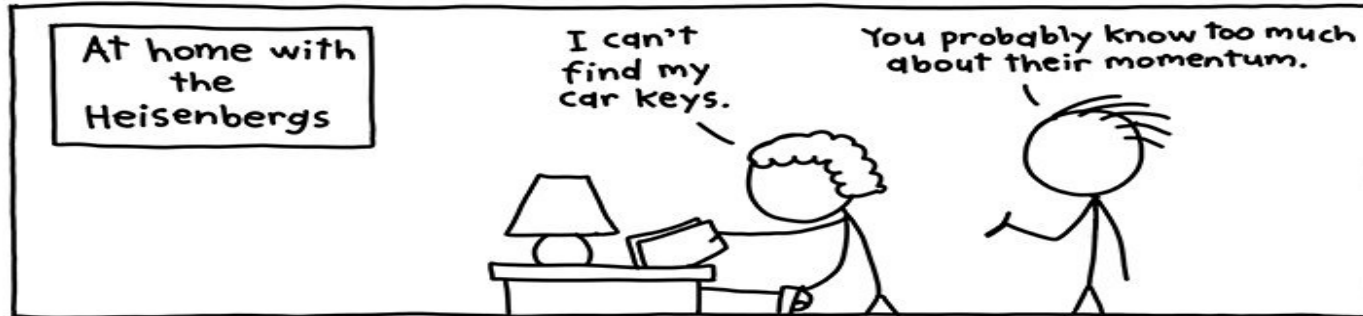
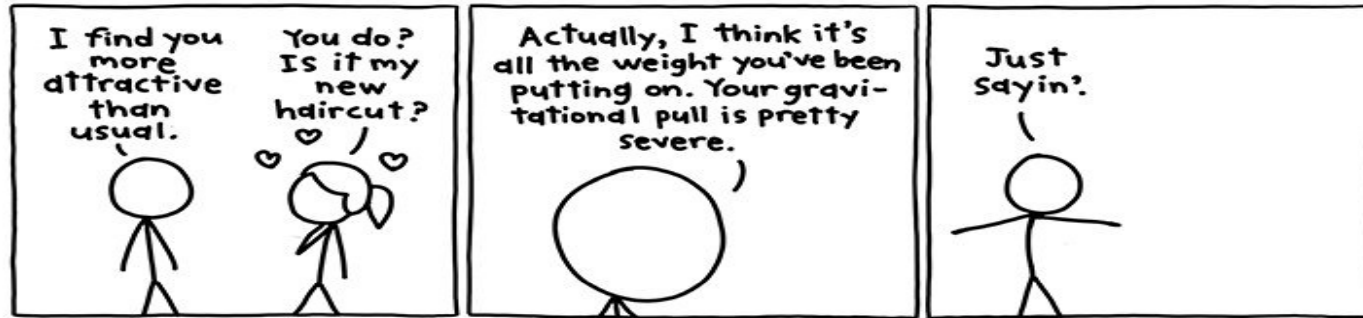
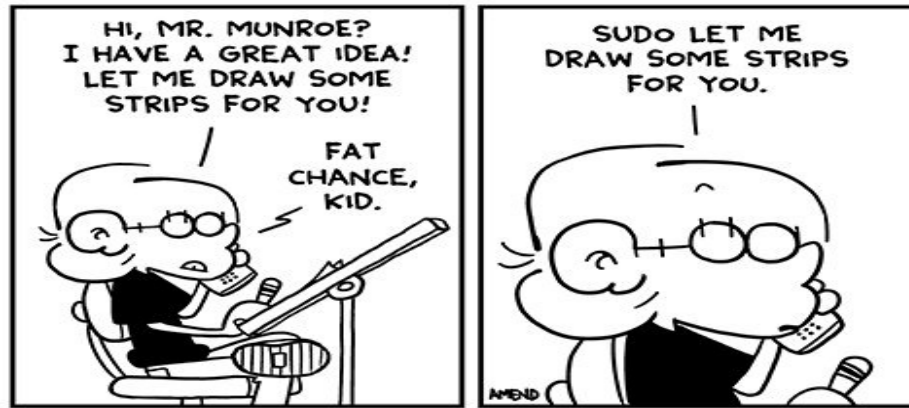
- Even humor can benefit from Physics

REMEMBER: WITH GREAT  
POWER COMES GREAT  
CURRENT SQUARED  
TIMES RESISTANCE.



OHM NEVER FORGOT HIS  
DYING UNCLE'S ADVICE.







# The Barehanded Teacher

- ...understands the value of seemingly trivial knowledge in inspiring curiosity and interest
- ...explains Physics in a unique and engaging way
- ... is prepared to come to class, even if it doesn't seem to be so





## In further closing,

- Do you believe that motion is real? Zeno says, “All motion is an illusion”



