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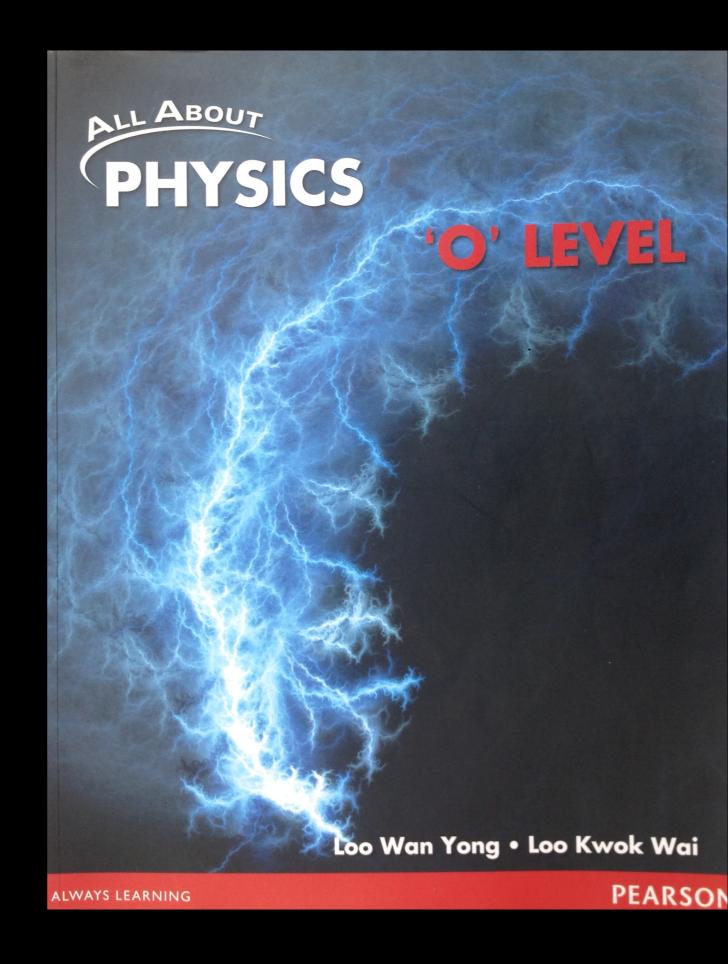


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### PHYSICS MATERIALS

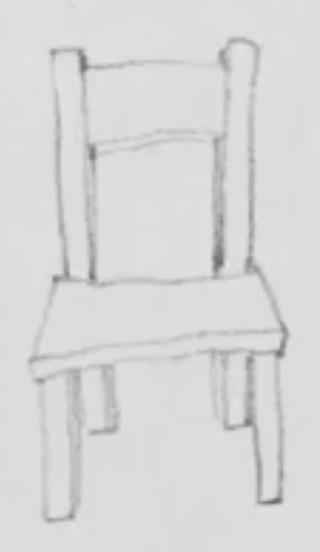
- 1. Reference book: All about Physics
- 2. All lessons: calculator
- 3. All practical lessons: 30-cm semitransparent ruler



#### PHYSICS ASSESSMENT

- CA1 (15%): practicals, quizzes, SPA (from Sec 3)
- SA2 (25%): Mid-year Exams
- CA2 (15%): practicals, quizzes, Sec 4 SPA skill 2 & 3
- SA2 (45%): EOY Exams

# Why do I study physics?



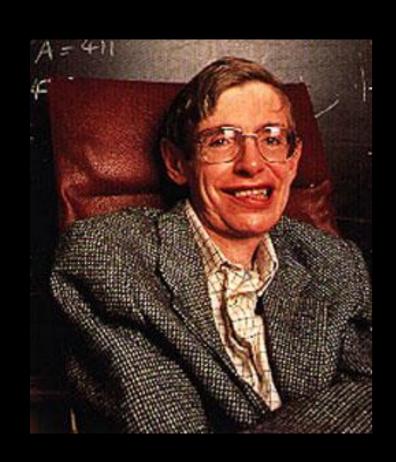
http://youtu.be/pom8S7qF5Gk

### STEPHEN HAWKING(1942-)



- He was born on January 8, 1942, in Oxford, England.
- At an early age, Hawking showed a passion for science and the sky.
- At age 21, while studying cosmology at the University of Cambridge, he was diagnosed with Amyotrophic Lateral Sclerosis (ALS).
- Despite his debilitating illness, he has done ground-breaking work in physics and cosmology, and his several books have helped to make science accessible to everyone.

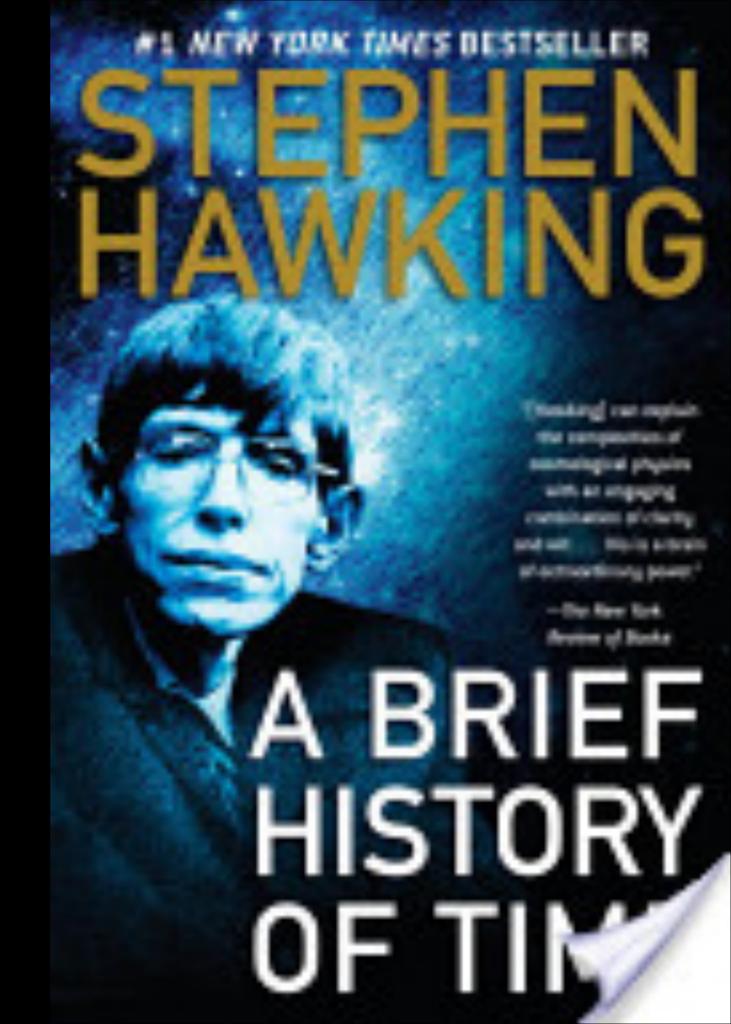
### STEPHEN HAWKING(1942-)



- After he was diagnosed with ALS, doctors gave him 2 and a half years to live.
- "I was bored with life before my illness," he said. "There had not seemed to be anything worth doing."
- With the sudden realization that he might not even live long enough to earn his Ph.D., Hawking poured himself into his work and research.

- He is known for his contributions to the fields of cosmology and quantum gravity, especially in the context of black holes.
- These include A Brief History of Time which spent more than 4 years on the London Sunday Times best-seller list.

http://www.biography.com/people/ stephen-hawking-9331710? page=2#als-diagnosis



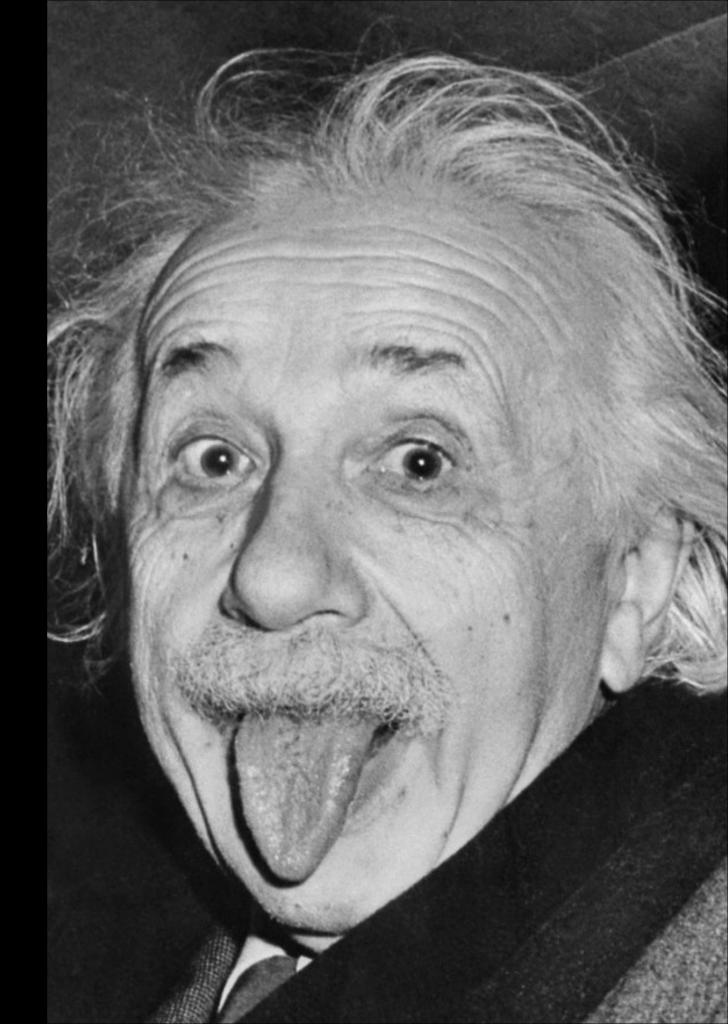
# LONDON PARALYMPIC GAMES 2012

 He had the honour to open the Paralympic Games by ruminating about the origins of the universe.

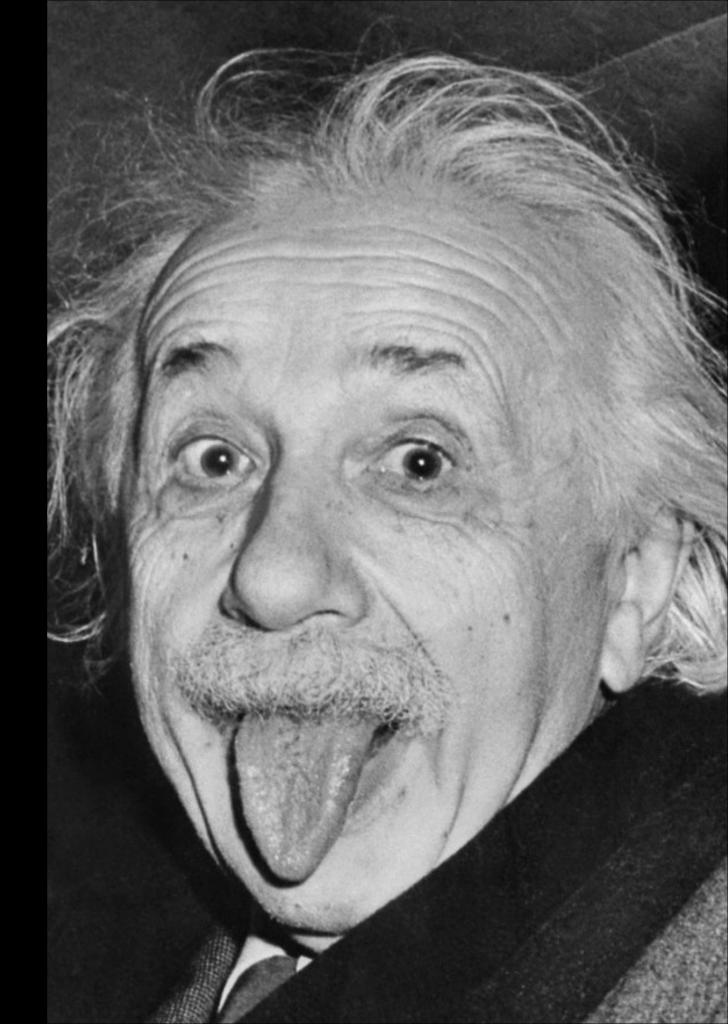


# ALBERT EINSTEIN (1879-1955)

 "Insanity is doing the same thing, over and over again, but expecting different results."



 "Try not to become a man of success but rather to become a man of <u>value</u>."



### ABOUT LEARNING PHYSICS

### Values

- 1. Be diligent
- 2. Be prudent
- 3. Respect others/ have Integrity
- 4. Be simple

### Problem-solving

- 1. Practise & practise
- 2. Apply scientific reasoning
- 3. Respect others' ideas / have Integrity in learning
- 4. Neat, concise



# LEARNING ATTITUDE

- Be Curious!
- Be Very Curious!



### NEXT LESSON

- Read up on Lenses in Chapter 13 (from page 269) of Textbook "All about Physics".
- Read Chapter 8 Lenses Notes & do exercises
- Pop Quiz (2 5 marks)