



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



DEPARTMENT OF CIVIL ENGINEERING

110 MECT103- BASIC CIVIL AND MECHANICAL ENGINEERING

I YEAR ISEM

UNIT 1 – CIVIL ENGINEERING MATERIALS AND SURVEYING

Topic 1 : Introduction to Civil Engineering



WHAT IS MEANT BY ENGINEERING?





WHAT IS MEANT BY ENGINEERING?



Definition by The [American Engineers' Council for Professional Development](#) has defined “engineering” as:

The creative application of scientific principles to design or develop structures, machines, apparatus, or manufacturing processes, or works utilizing them singly or in combination; or to construct or operate the same with full cognizance of their design; or to forecast their behavior under specific operating conditions; all as respects an intended function, economics of operation and safety to life and property

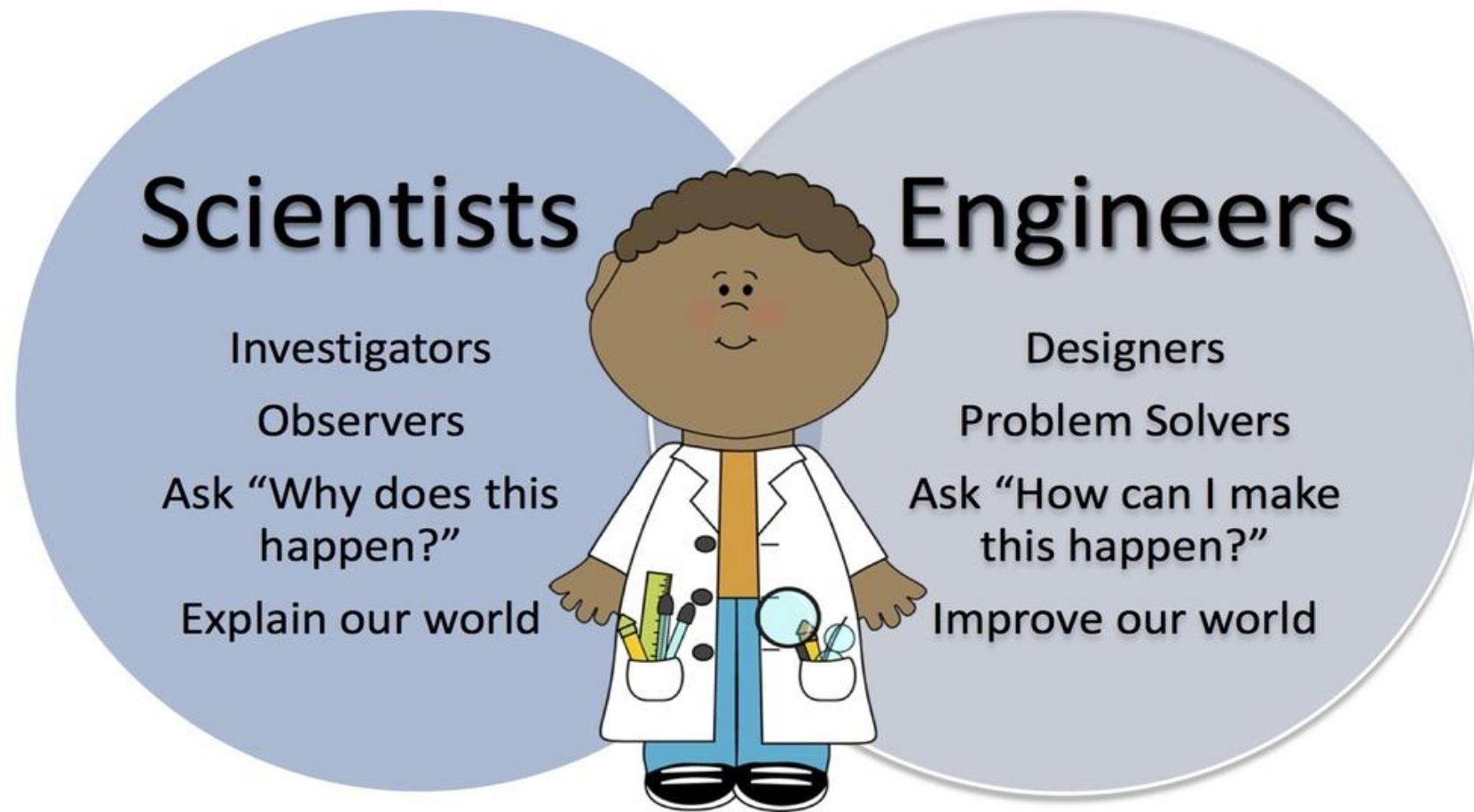




QUESTION TIME –WHAT IS THE DIFFERENCE B/W ENGINEERS & SCIENTISTS



Scientists & Engineers: What's the Difference?



"Scientists discover the world that exists; engineers create the world that never was." Theodore Von Karman

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❖ Scientists observe the world, while engineers focus on creating.

❖ Simply says “**Scientists** are the ones who **create the theories**, **engineers** are the ones who **implement them**”.

❖ **Science** is about knowledge and **engineering** is about invention.



CIVIL ENGINEERING.....?





DEFINE CIVIL ENGINEERING....



Civil Engineering is that field of engineering concerned with planning, design and construction for environmental Control, development of natural resources, buildings, transportation facilities and other structures required for health, welfare, safety, employment and pleasure of mankind". Fredrick .S. Merit Hand book for Civil Engineers.





HISTORY OF CIVIL ENGINEERING....

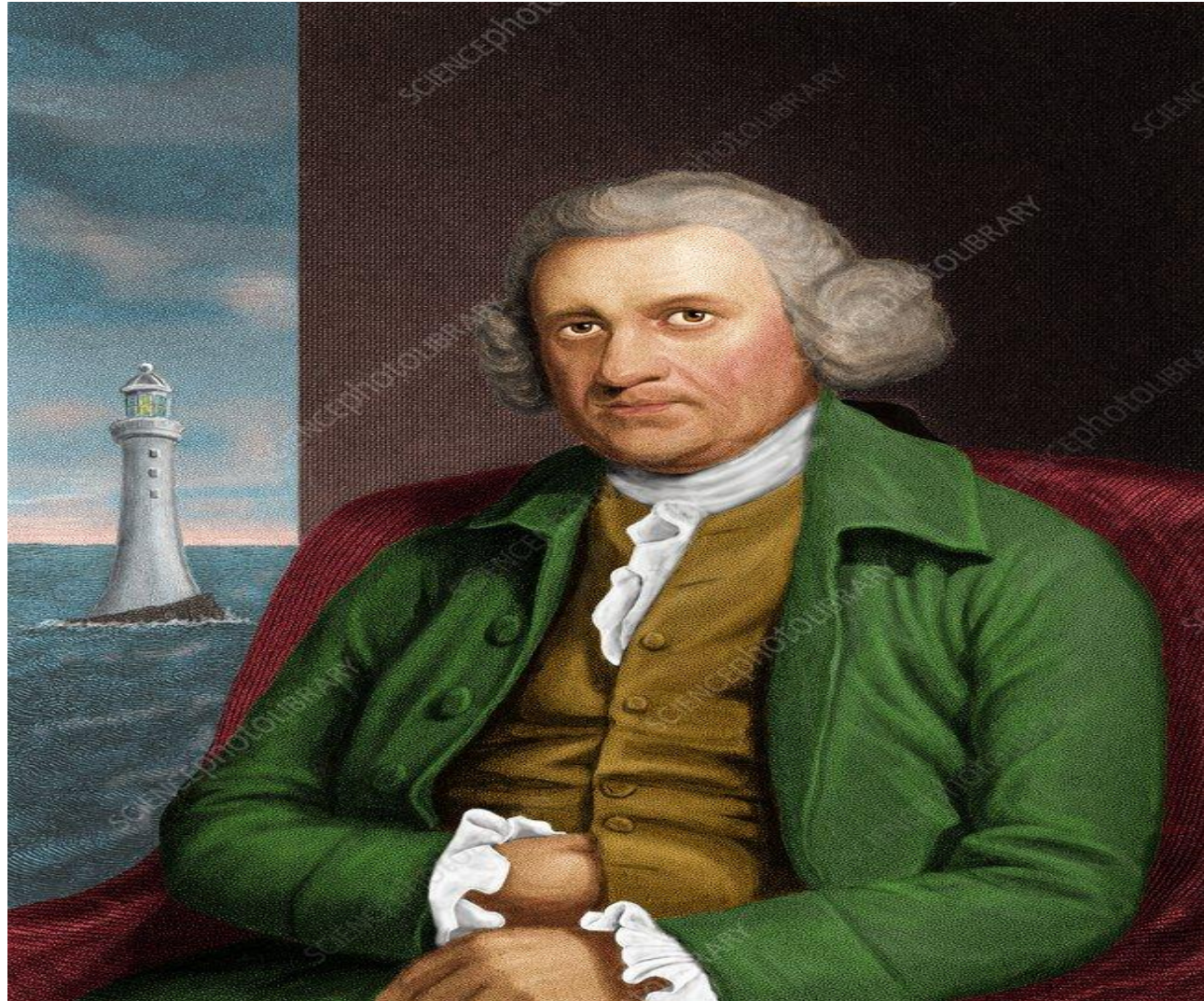


It is difficult to determine the history of emergence and beginning of civil engineering, however, that the history of civil engineering is a mirror of the history of **human beings on this earth**. Man used the old **shelter caves to protect themselves** of weather and harsh environment, and used a tree trunk to cross the river, which being the demonstration of ancient age civil engineering.





FATHERS OF CIVIL ENGINEERING....



John Smeaton,
(8 June 1724 – 28 October 17102)



**Bharat Ratna Mokshagundam
Visvesvaraya**
(15 September 1860- 14 April 110620)
•The father of Indian engineering
•Engineer's day In India



QUESTIONS TIME-ACTIVITY

ICE BREAKER



Read out loud the text inside the triangle below:



**More than likely
you said, "A bird
in the bush,"
and.....
Did you see that
the word THE is
repeated twice!**



QUESTIONS TIME-PUZZLES TIME



THANK YOU