JSS 3 BASIC TECHNOLOGY NOTES

MACHINES

Definition:
A machine is an equipment, which man uses to make his work faster, easier, more accurate and at low cost.

The world we live in today has come to the point where man can no longer live without machines. In a better sense, we can safely say that mankind and machines have become married to each that they can hardly be separated. This is the reason why we have to study to know more about it.

Types of machines:
Although at this level of learning, you are expected to learn about two main types of machines namely simple and complex machines, there are actually three known types of machines. These are briefly stated and explained below:

1. **Simple Machine:** This is a machine type that does not require any engine, electrical and or electronic system for it to work. It is purely mechanical, requiring only human hands, legs or other body parts to work. E.g. Scissors, knife, pen, wheelbarrow, pliers, hammer, crowbar, mallet, hoe, cutlass, bicycle, etc.

2. **Compound Machine:** This type of machine requires an engine, mechanical system, and or some electrical systems to work. Some examples of compound machines are: fan, washing machine, motorcycle, electric pressing iron, mixer, toaster, barbing machine, roller coaster, elevator, etc.

3. **Complex machine:** This is a type of machine which has mechanical systems, electrical, electronic and an engine system in it. Examples of this type of machine included: train, aircraft, vehicle, ship, computers, phones, radio set, scanner, X-ray machine, telescope, etc.

Mechanical Advantage (M.A):
This is a technical term that is used to know the amount of value a machine can give to man. Numbers are used to know how beneficial a machine is to man. This benefit or value is actually based on the amount of energy, power or effort that man has to put into a machine for it to work for man. The smaller the number, the greater the effort; and the bigger the number, the smaller the effort man applies. Mechanical Advantage is calculated by using the mathematical formula below:

$$\text{Mechanical Advantage (M.A)} = \frac{\text{Load}}{\text{Effort}}. - \quad - \quad - \quad - \quad - \quad -(1)$$

Example problem: Two machines are expected to lift a load of 350N. If the force machine A applied to lift it is 75N and machine B used a force of 105N to do the same, (a) calculate the mechanical advantages for each of the machines? (b) Which of the machines is more efficient?
Solution:

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Yaw Boadu-Ayeboafoh

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Tradition, Modernity and Post-modernity in Comparative Education Vandra Masemann,Anthony Welch,1998-01-31 This special double issue consists of a selection of papers presented at the Ninth World Congress of Comparative Education held at the University of Sydney Australia in July 1996 on the theme of Tradition Modernity and Post modernity in Comparative Education Before presenting the selection this introduction will first survey the changing discourse in comparative edu cation over the past few decades and will argue that an unreformulated and uncritical postmodernity holds no greater promise in comparative education than its uncritical modernist or tradition oriented rivals When Nicholas Hans

1949 cited Michael Sadler s early rationale for studying comparative education it was within the context of a work which sought to identify the traditions that underlay national educational systems This early work together with others such as that by Isaac Kandel 1930 was predicated on the assumption of the importance of national character of which education systems were an important component Indeed from this perspective the purpose of comparative education was not merely to analyse the forces and factors which produced differences among educational systems but implicitly at least also to discover the underlying principles which govern the development of all national systems of education Hans 1949 5 Hans was preeminently an historian of course as was Kandel to an extent and therefore saw comparative education first and foremost in this light

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