**LESSON PLAN/NOTE FOR WEEK 6 ENDING 20/10/2023.**

**Term**: First

**Week**: 6

**Date**: 16/10/2023.

**Class**: SS 2

**Subject**: Economics

**Topic**: Production possibility curve

**Sub-Topic:** Concept of total, average productivity.

**Period**: Second

**Time**: 8:50-9:30

**Duration**: 40 Minutes

**Number in class**: 10 Students

**Average age:** 14 Years

**Sex**: Mixed

**Specific objectives:** By the end of the lesson, the students should be able to:

(1) Define Total product.

(11) Explain Average product

(111) Describe Marginal product

**Rationale**: For the students to be able to differentiate between total, average and marginal product.

**Previous knowledge:** The students have been seeing different products in the market.

**Instructional material:** A chart showing the relationship between total, average and marginal product

**Reference material:** Gbenga Babalola (2020) Metropolitan Economics for senior secondary schools.

**LESSON DEVELOPMENT**

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| **Stages/Steps** | **Teacher's Activities** | **Students' Activities** | **Learning points** |
| **Introduction** | Reviews the previous lesson. | Participate actively in the class discussion. | To arouse the students interest to learn. |
| **Step 1** | Defines Total product as: Total product is the total quantity of output produced by a given number of workers over a given period of time. | Listen carefully to the teacher. | For better understanding of the lesson. |
| **Step 11** | Guides the students to explain Average product. | Respond to the class activity. | To encourage critical thinking. |
| **Step 111** | Asks the students to Describe Marginal product. | Describe Marginal product as the addition to total output. | To enable the students to reason logically. |
| **Board Summary** | Summarizes the lesson as:  **Concept of Total, Average and Marginal product.**  **(1) Total product:** This is the total quantity of output produced by a given number of workers over a given period of time. Remember the amount of capital (e.g machine) is fixed. It is the total quantity of commodities produced at a particular time as a result of the combination of all the factors of production. Total product is expressed mathematically as: TP= AP x Labour. E.g if 30 men were employed in a farm and they produced an average of 15 tonnes of cassava per person, calculate the total product.  Solution.  TP= AP x Labour. TP= 15 tonnes x 30 = 450 tonnes.  (**2) Average product:** This is the quantity of output per unit of input. The input is labour. In other words, we are dealing with output per worker, on average. Mathematically, average product can be expressed as: AP= Total product (output)  No. Of labour (or capital  Example: If 3000 tonnes of cassava were harvested by 60 men in a farm on daily basis, calculate the average output.  Solution  AP= total output  No. Of labour (men)  AP= 3000 tonnes  60 Men =50 tonnes/ person  **(3) Marginal product (mp):** This is the addition to total output brought about as a result of the employment of an additional unit of a variable factor. MP can be expressed mathematically as:  MP= change in TP  Change in variable factor  Example: If 3,080 tonnes of cassava were harvested from the same farm as a result of the 60 men, calculate the marginal product. Solution  MP= (3080 — 3000)/(61—60) =80/1= Mp= 80 tonnes. | Copy and submit the note book for marking. | For future reference. |
| **Evaluation** | Evaluates the lesson as:  (1) Define Total product.  (2) Explain average product.  (3) Describe Marginal product. | Respond to the questions. | Ascertaining the attainment of the stated objectives. |
| **Conclusion** | Rounds up the lesson by marking and correcting students work. | Check and do their correction. | Consolidation of the lesson. |
| **Assignment** | Gives home work as:  (1) Explain the following:  (a) Increasing return to scale  (b) Constant return to scale  (c) Decreasing return to scale. | Respond by doing the home work at home. | To ensure continuity of learning. |

20TH October 2023

Approved!

DEPUTY HEAD INSTRUCTOR ADMIN