**ASCOT HIGH SCHOOL**

**MATHEMATICS DEPARTMENT**

**PROJECT TITLES FOR SBA: PAPER 031 (20% of Total Assessment**)

**A. CONSUMER ARITHMETIC**

1. The comparative cost of private versus public transportation over a three (3) – month period.

2. The advantages and disadvantages of buying a new or used car on hire purchase.

4. Better buy:

a) Hire Purchase options at COURTS versus SINGER (select at least 4 items).

b) The comparative cost of basic food items at (Price Smart) versus (Progressive Food Store).

c) The comparative cost of basic food items: Retail versus Wholesale.

d) The comparative cost of basic food items at shops versus supermarkets in (my locality).

e) The comparative cost of food items at Uptown wholesales versus Downtown wholesales.

f) The comparative cost of prices of items at wholesales in (the same locality).

5. Preparing for University: Which investment plan gives the best financial returns?

(E.g. Omni Educator; Scotia Wise; Scotia Mint etc.)

6. Commercial Banks versus a) Credit Unions: An examination of the interest rates

b) Building Societies: An examination of the interest rates

c) Non-regulated financial institutions: An examination of the interest rates

7. Borrowing money from a bank: Using a credit card or taking a loan?

8. Family vacation in Jamaica or abroad: Which is cheaper?

**B. STATISTICS**

1. Types of cars at HCHS and factors that influence this choice

2. Shuttle taxi versus Chartered taxi: What vehicles do taxi men prefer?

(Station wagon versus sedan; Toyota versus Nissan; used versus new cars)

3. Shuttle taxi versus Chartered taxi: An examination of road fatalities over a 6- month period

4. Scoring goals on a netball court: a) what is the optimal distance?

b) What is the best spot on the court?

c) Heights of students and their and goal scoring ability.

5. How does the Table of Normal Weight compare with the weights of a set of:

a) 14 year old students?

b) 13 year old students?

c) 12 year old students?

6. The calorie intake of a set of: a) 14 year old students

b) 13 year old students

c) 12 year old students

Does it match their daily requirement?

7. Replacing sodas with Natural Juice at AHS: How viable is it?

8. Subject blocks in 3 options schemes in Grade 10 : What are the problems for students, staffing and room?

**C. MEASUREMENT**

1. Surface Area: Designing the best package for

a) A manufactured product

b) Posting an article

2. Planning and Designing: a) the comparative cost of tiling a 3 bedroom house

b) The comparative cost of painting a house

c) The comparative cost of roofing a house with zinc.

3. Floor Planning: a) The ideal use of space in a kitchen

b) The ideal use of space in a bedroom

c) The ideal use of space in a classroom

4. Getting to Ascot High by 7:25: What is the approximate time to leave my community?

5. Travelling by different routes from Point A to Ascot High School: a) which takes the least time?

b) Which is the most cost effective?