Half Course 3

Analysis of Games and Numbers
General Outcome: **Develop critical thinking skills**
Specific Outcomes
It is expected that students will:
11E3.A.1. Analyze puzzles and games that involve numerical reasoning, using problem-solving strategies. [C, CN, PS, R]

Interest and Credit
General Outcome: **Develop an understanding of credit and the effects of interest**
Specific Outcomes
It is expected that students will:
11E3.I.1. Demonstrate an understanding of compound interest. [CN, ME, PS, T]
11E3.I.2. Demonstrate an understanding of credit options, including: • credit cards • loans. [CN, ME, PS, R]
11E3.I.3. Solve problems that require the manipulation and application of formulas related to: • simple interest • finance charges. [CN, PS, R]

3-D Geometry
General Outcome: **Develop an understanding of spatial relationships applied to volume and surface area**
Specific Outcomes
It is expected that students will:
11E3.G.1.Solve problems that involve SI and imperial units in surface area measurements. [C, CN, ME, PS, V]
11E3.G.2. Solve problems that involve SI and imperial units in volume and capacity measurements. [C, CN, ME, PS, V]
11E3.G.3. Solve problems that require the manipulation and application of formulas related to: • volume and capacity • surface area [CN, PS, R]

Statistics
General Outcome: **Develop statistical reasoning**
Specific Outcomes
It is expected that students will:
11E3.S.1. Solve problems that involve creating and interpreting graphs, including: • bar graphs • histograms • line graphs • circle graphs. [C, CN, PS, R, T, V]

Half Course 4

Analysis of Games and Numbers
General Outcome: **Develop critical thinking skills**
Specific Outcomes
It is expected that students will:
11E4.A.1. Analyze puzzles and games that involve numerical reasoning, using problem-solving strategies. [C, CN, PS, R]

Managing Money
General Outcome: **Develop an understanding of managing money**
Specific Outcomes
It is expected that students will:
11E4.M.1. Solve problems that involve personal budgets. [CN, PS, R, T]
11E4.M.2. Demonstrate an understanding of financial institution services used to access and manage finances. [C, CN, R, T]

Relations and Patterns
General Outcome: **Develop proportional reasoning**
Specific Outcomes
It is expected that students will:
11E4.R 1. Demonstrate an understanding of slope: • as rise over run • as rate of change by solving problems. [C, CN, PS, V]
11E4.R 2. Solve problems by applying proportional reasoning and unit analysis. [C, CN, PS, R]
11E4.R.3. Solve problems that require the manipulation and application of formulas related to slope and rate of change. [CN, PS, R]
11E4.R.4. Solve problems that involve scale. [PS, R, T, V]
11E4.R.5. Demonstrate an understanding of linear relations by: • recognizing patterns and trends • graphing • creating tables of values • writing equations • interpolating and extrapolating • solving problems. [CN, PS, R, T, V]

Trigonometry
General Outcome: **Develop spatial sense related to triangles**
Specific Outcomes
It is expected that students will:
11E4.TG.1. Solve problems that involve two and three right triangles. [CN, PS, T, V]

Design Modeling
General Outcome: **Develop spatial sense**
Specific Outcomes
It is expected that students will:
11E4.D.1. Model and draw 3-D objects and their views. [CN, R, V]
11E4.D.2. Draw and describe exploded views, component parts and scale diagrams of simple 3-D objects. [CN, V]

Processes:
C – Communication   CN – Connections   ME – Mental Mathematics and Estimation
PS – Problem Solving   R – Reasoning   T – Technology
V – Visualization