### Analysis of Games and Numbers

**General Outcome:** Develop critical thinking skills

**Specific Outcomes**

1. **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**

1. **11E3.I.1.** Demonstrate an understanding of compound interest.
   
   [CN, ME, PS, T]

2. **11E3.I.2.** Demonstrate an understanding of credit options, including:
   - credit cards
   - loans.
   
   [CN, ME, PS, R]

3. **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**

1. **11E3.G.1.** Solve problems that involve SI and imperial units in surface area measurements.
   
   [C, CN, ME, PS, V]

2. **11E3.G.2.** Solve problems that involve SI and imperial units in volume and capacity measurements.
   
   [C, CN, ME, PS, V]

3. **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**

1. **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]

### Managing Money

**General Outcome:** Develop an understanding of managing money

**Specific Outcomes**

1. **11E4.M.1.** Solve problems that involve personal budgets.
   
   [CN, PS, R, T]

2. **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**

1. **11E4.R.1.** Demonstrate an understanding of slope:
   - as rise over run
   - as rate of change by solving problems.
   
   [C, CN, PS, V]

2. **11E4.R.2.** Solve problems by applying proportional reasoning and unit analysis.
   
   [C, CN, PS, R]

3. **11E4.R.3.** Solve problems that require the manipulation and application of formulas related to slope and rate of change.
   
   [CN, PS, R]

4. **11E4.R.4.** Solve problems that involve scale.
   
   [PS, R, T, V]

5. **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**

1. **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**

1. **11E4.D.1.** Model and draw 3-D objects and their views.
   
   [CN, R, V]

2. **11E4.D.2.** Draw and describe exploded views, component parts and scale diagrams of simple 3-D objects.
   
   [CN, V]

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

[For more information, visit: http://www.edu.gov.mb.ca/k12/cur/math/outcomes/index.html]