Algebra Unit Review

1. **Modelling Algebra with Scales**
   - Draw your scales (Remember variables are represented with a box, numbers with a circle)
   - You must keep the scale balanced; what you do to one side you must do to the other.
   - Remember to verify.
   - Practice Questions:

     MMS 7
     - Page 229 #2
     - Page 236 #2
     - Page 249 #4
     - Page 255 #17

2. **Solving One Step Equations with Algebra**
   - Isolate the variable (get x by itself)
   - Do opposite operations (- is opposite of +) (x is opposite of ÷)
   - Remember what you do to one side, you must do to the other.
   - Verify (write your original equation, substitute, show all math steps following BEDMAS, get left and right side equal)

     MMS 7
     - Page 234 #2
     - Page 243 #1, 2(a,b,c,d,e,f)
     - Page 250 #14(a,b,c,d,e)
     - Page 251 #1

3. **Solving Two Step Equations with Algebra**
   - Follow SAMDEB (start with adding and subtracting)
   - Isolate the variable (get x by itself)
   - Do opposite operations (- is opposite of +) (x is opposite of ÷)
   - Remember what you do to one side, you must do to the other.
   - Verify (write your original equation, substitute, show all math steps following BEDMAS, get left and right side equal)

     MMS 7
     - Page 238 #1c

- Page 243 #2(g,h)
- Page 250 #14f
- Page 251 #1d

4. **Expressions from Words**
   - Identify the key word for your operation
   - Choose a variable
   - Write your expression
   - Solve if necessary

   MMS7
   - Page 224 #4, 5, 6, 7
   - Page 229 #3
   - Page 248 #2

5. **Word Problem with Algebra**
   - Write your let statement
   - Write your knowns
   - Write your equation
   - Solve
   - Verify
   - Final answer in a sentence.

   MMS 7
   - Page 239 #7
   - Page 244 #6,7
   - Page 249 #6
   - Page 251 #4,5

6. **Solve a multistep algebraic equation *Exceeding Expectations Question**
   - This will be a mixture of the three step equation types
     - Algebra Worksheet 3: Three Step Equations