

Math Year Plans -WAM 20

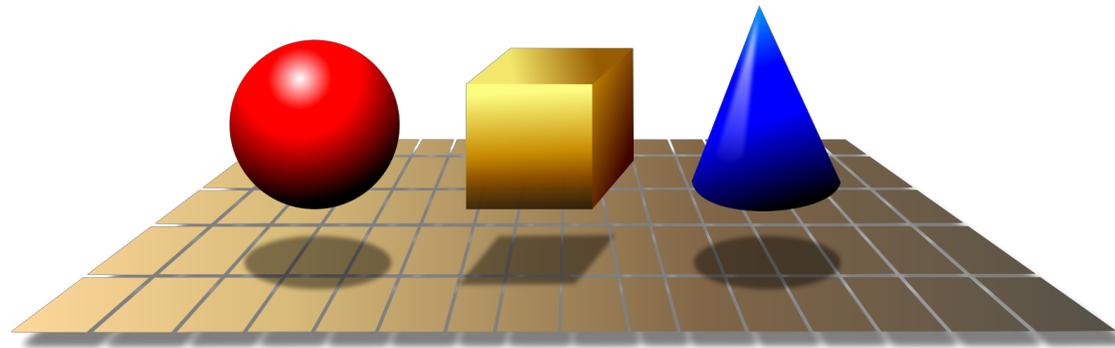
March 19th, 2015

EMTH 450

David

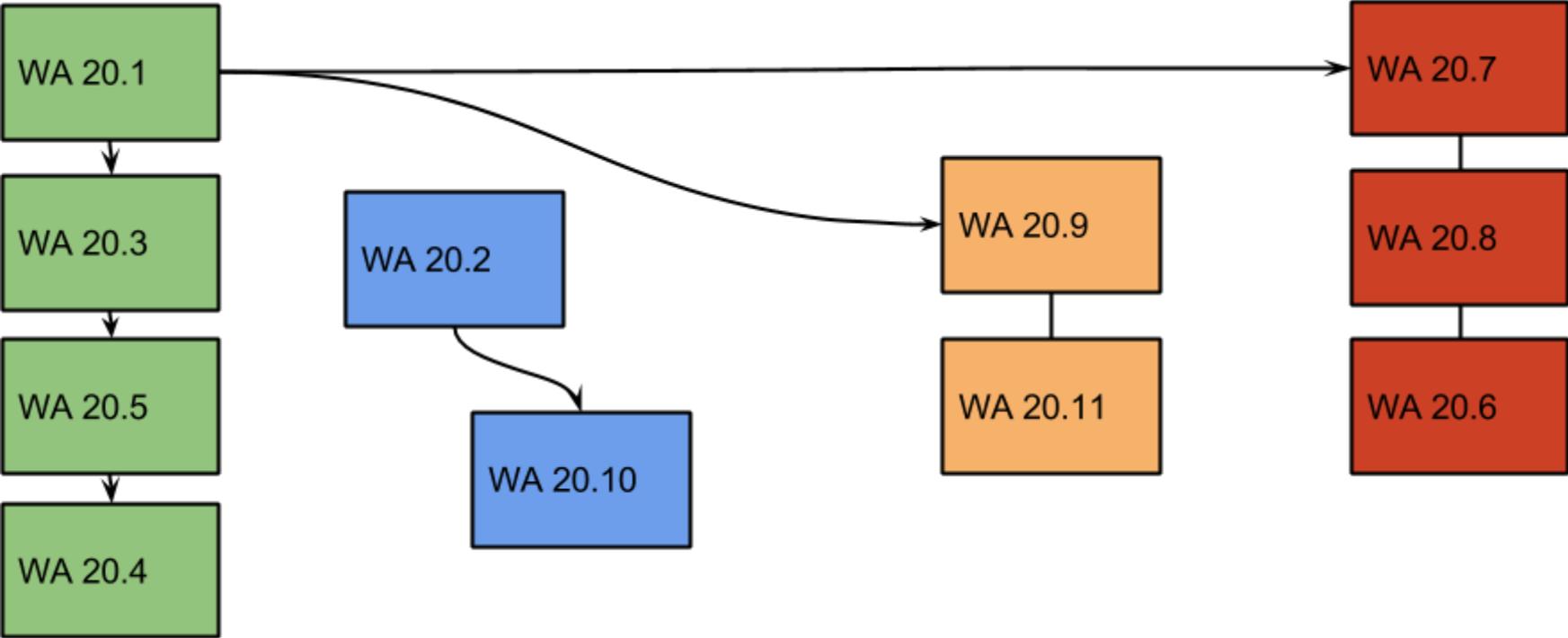
Hillary

Jennie



Workplace and Apprenticeship 20

Map



Reasoning

We have decided to start with the Volume, Surface Area, of shapes (green strand) because we thought it was essential that the students get a good grasp of the shapes and objects in order for them to be successful in the following outcomes. Once the students understand the meaning behind solving different shapes and objects they can transfer this knowledge into the following and outcomes.

From the green strand it really doesn't matter what color strand you decide to go with as they all build off of the green strand. This is why it is important that we start with the green strand because this knowledge gets carries over to each and every other color strand. But we have decided that we are going to move onto the orange strand because it is a visual representation of math.

From here we would move onto the red strand that is dealing with Financial. We don't want to leave this strand until last just in case there is not enough time to properly finish this strand. This is because the Financial strand is a very important for students to understand how to do. This is something that applies to everyday life that the students need to grasp and know how to do. Finance is something that everyone needs to know how to do so that they can be successful not only in school but also in real life situations.

Finally we will do the blue strand, as it deals with problem solving. Once students have learned the other 3 strands, they can apply that knowledge to solve other problems.

Green Strand: Volume, Surface Area, 3-D Objects and Triangles

[WA20.1 \(#1\)](#)

Expand and apply understanding of the preservation of equality including solving problems that involve the manipulation and application of formulae for volume and capacity, surface area, slope and rate of change, simple interest, and finance charges. [C,CN,ME,PS,R,T]

[WA20.3 \(#2\)](#)

Extend and apply understanding of surface area, volume, and capacity using concrete and pictorial models and symbolic representations (SI or imperial units of measurement). [C,CN,ME,PS,V]

WA20.5 (#3)

Extend and apply understanding of 3-D objects including:

- top, bottom, and side views
- exploded views
- component parts
- scale diagrams.

[CN, R, T, V]

WA20.4 (#4)

Solve problems that involve at least two right triangles. [CN,PS,T,V]

Orange Strand: Visual Representation of Math

WA20.9 (#5)

Demonstrate concretely, pictorially, and symbolically (with and without the use of technology) an understanding of slope with respect to:

- rise over run
- rate of change
- solving problems.

[C, CN, PS, V]

WA20.11 (#6)

Extend and apply understanding of representing data using graphs including:

- bar graphs
- histograms
- line graphs
- circle graphs.

[C, CN, PS, R, T, V]

Red Strand: Financial Planning

[WA20.7 \(#7\)](#)

Demonstrate understanding of compound interest. [CN, ME, PS, T]

[WA20.8 \(#8\)](#)

Demonstrate understanding of financial institution services used to access and manage personal finances, including credit options. [C,ME,CN,PS,R,T]

[WA20.6 \(#9\)](#)

Demonstrate understanding of personal budgets and their importance for financial planning. [CN,PS,R,T,V]

Blue Strand: Solving Problems and Proportional Thinking

[WA20.2 \(#10\)](#)

Demonstrate the ability to analyze puzzles and games that involve numerical reasoning and problem solving strategies. [C,CN,PS,R]

[WA20.10 \(#11\)](#)

Extend and apply proportional thinking to solve problems that involve unit analysis and scale. [C,CN,PS,R,T,V]