8th Grade Geometry/Measurement Review Materials

The enclosed materials for eighth grade students are intended to review geometry and measurement content that the Oregon Department of Education (ODE) defines as *eligible content*, or content which "may appear on the Oregon Statewide Assessment."

Eligible content covers concepts and skills students have studied in 6th, 7th and 8th grade. The Connected Mathematics Project curriculum is aligned to the state content standards and benchmarks. These materials are intended to fill the few gaps between the curriculum and the eligible content, or to provide a review of geometry/measurement content that students may not have studied recently.

Information about eligible content is found in the ODE document called *Teaching and Learning to Standards*, available on the ODE web site http://www.ode.state.or.us/tls/mathematics/ by clicking on "Content Standards".

Eligible geometry/measurement content addressed with these materials (from *Teaching and Learning to Standards)*:
Students will identify, measure, and visualize geometric figures and their component parts, including:

- *points, lines, planes, rays, vertices, segments, faces*
- *properties of parallel and perpendicularlines*
- *angles-right, acute, obtuse*
- *polygons*
- *types of triangles-- right, acute, obtuse, scalene, isosceles, equilateral*
- *features of circles-- radius, chord, diameter, tangent, line*
- *solids—sphere, cylinder, pyramid, prism*

Students will apply, often in context:

- *definitions of complementary and supplementary angles.*

Three and a half days are allotted on the 8th grade math calendar for this review. The materials are organized into five different formats (described on the following pages) that could be adapted for use with other content.

Information about the geometry/measurement concepts listed as eligible content can be found in the *Connected Mathematics Project* materials, *Math On Call* by Great Source (an order form is in your school's resource binder) or *Hot Words Hot Topics* by Creative Publications.

Additional review resources can be found on the web at
http://www.xmission.com/~dparker/mathpage/platonic.html
http://www.mathforum.org/~sarah/hamilton/ham.lines.html
http://www.edhelper.com/geometry.htm

The following Scott Foresman (SF) worksheets could also be used for review:
lines, rays, segments: SF Course 1 p. 89
vertices, faces: SF Course 1 p. 128
parallel, perpendicular: SF Course 2 p. 45 or SF Course 3 p. 81
angles (right, acute, obtuse): SF Course 3 p. 80
polygons: SF Course 3 p. 82
scalene, isosceles, equilateral triangles: SF Course 1 p. 94
solids (sphere, cylinder, pyramid, prism): SF Course 3 pp. 89, 90, 92, 94, 95