

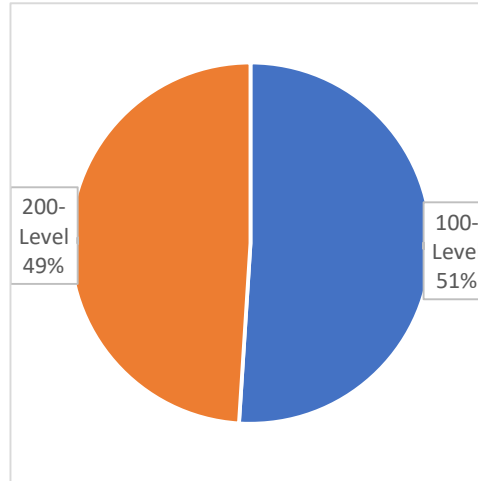
AY21-22 GENERAL EDUCATION QUANTITATIVE LITERACY COMPETENCY

Following a restructure of YC General Education, all student who participate in GE coursework should graduate with several essential skills that students are expected to develop over time. Those essential skills are as follows:

<p><u>COMMUNICATION</u> Written Communication</p>	<p><u>CRITICAL THINKING</u> Quantitative Literacy Scientific Literacy Critical Thinking</p>	<p><u>SOCIAL RESPONSIBILITY</u> Diversity Awareness</p>
--	--	--

YC assessed Quantitative Literacy during the first year using shared rubrics; selected faculty were tasked with student work product selection and submission. The same faculty as reviewed and scored the SWPs.

Work products served as representative samples of Quantitative Literacy and were rated using a modified VALUE rubric: 1 = Limited/No Proficiency (1st-year college); 2 = Developing Proficiency (2nd-year college); 3 = Proficiency (completing gen ed-level); 4 = Advanced Proficiency (completing BA/BS level)



99 Student Work Products Submitted by **18 Faculty** from **11 Unique Courses**

All students with +15 credits in General Education

Course Modality
27% Face-to-Face
63% Online
8% Hybrid
2% Dual Enrollment



QUANTITATIVE LITERACY COMPETENCY

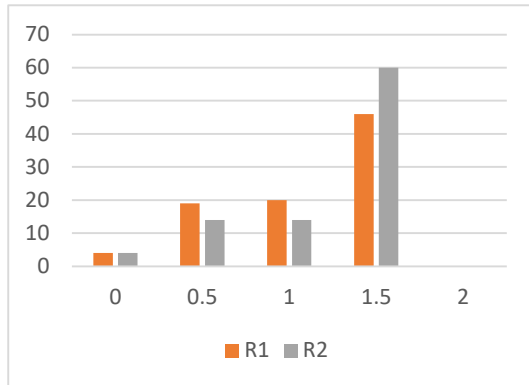
1.62

Math Language & Operations	Real-World Application	Interpret Representations of Data	Use Problem Solving Strategies
1.64	1.61	1.59	1.63
<p style="text-align: center;"><i>Rubric Criteria</i></p> <ul style="list-style-type: none"> Appropriate use of the language of mathematics Use of basic mathematical concepts and operations Contributes to discussions about basic mathematical concepts and operations 	<p style="text-align: center;"><i>Rubric Criteria</i></p> <ul style="list-style-type: none"> Recognize problem that can be solved quantitatively Choose appropriate quantitative methodology Articulate meaning of solution 	<p style="text-align: center;"><i>Rubric Criteria</i></p> <ul style="list-style-type: none"> Analyzes and interprets displays of data Create approximate representation of data <ul style="list-style-type: none"> Explains data in everyday language Relates data to appropriate content 	<p style="text-align: center;"><i>Rubric Criteria</i></p> <ul style="list-style-type: none"> Choose appropriate strategy to solve a problem Verifies solution and validity using multiple solutions strategy

Inter-Rater Reliability

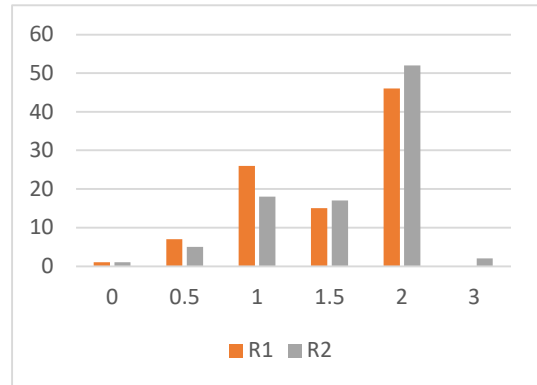
Math Language & Operations

74% Agreement



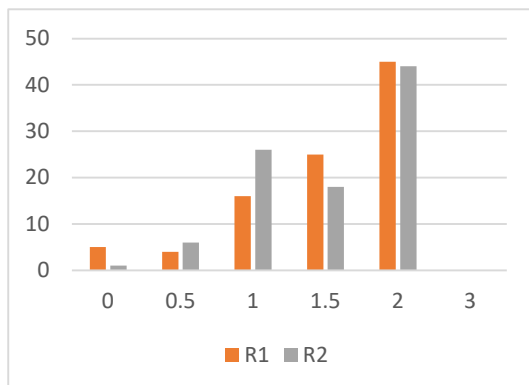
Real-World Application

74% Agreement



Interpret Representations of Data

71% Agreement



Use Problem Solving Strategies

38% Agreement

