

Common Core State Standards for Mathematics		
Domain: Arithmetic with Polynomials and Rational Expressions		
Arithmetic Operations on Polynomials (A-APR.1)		
High School		
Score 4.0	In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard. The student will:	Example Activities
	3.5 In addition to score 3.0 performance, in-depth inferences and applications with partial success.	
Score 3.0	<p>The student will:</p> <ul style="list-style-type: none"> multiply polynomials (A-APR.1) understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction and multiplication (A-APR.1) <p>The student exhibits no major errors or omissions.</p>	<p><u>Polynomial Multiplication Error Analysis</u> – The teacher will need to access multiple problems that require multiplication of different polynomials. The teacher will multiply each set of polynomials incorrectly and show the work for each. Students will be placed in pairs and given 3-5 incorrect multiplications. The students will be tasked with identifying the error and correctly revising the problem. The teacher will circulate the room monitoring and providing immediate specific feedback as to the accuracy of each pair's work. Once all groups have completed their error analysis, they will be required to change partners. Once in new groups, each student will explain to their new partner what errors they found in the initial work and how they revised the error. The new partners will be required to agree upon revisions for ALL problems in the group. Once the groups agree upon all revisions they will submit the work to the teacher for feedback.</p>
	2.5 No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content	
Score 2.0	<p>There are no major errors or omissions regarding the simpler details and processes as the student will:</p> <ul style="list-style-type: none"> recognize or recall specific vocabulary, such as: <ul style="list-style-type: none"> polynomial perform basic processes, such as: <ul style="list-style-type: none"> adds and subtracts polynomials (A-APR.1) <p>However, the student exhibits major errors or omissions regarding the more complex ideas and processes.</p>	<p><u>Polynomial Addition/Subtraction Circuit</u> – The teacher will need to access multiple problems that require addition and subtraction of different polynomials. The teacher posts the problems on the walls around the classroom. Above each problem a polynomial expression is posted, each expression is the solution to one of the posted problems (do not post the correct expression over its original problem). Students are spread out to each of the posted problems in the room to begin with; they are required to work each problem individually moving around the room. Each correct polynomial solution will lead them to the next station, once they arrive at the next station they are to work that problem and continue this process. As the students work, the teacher should be moving around the room monitoring and providing immediate constructive feedback to the students.</p>
	1.5 Partial knowledge of the 2.0 content but major errors or omissions regarding the 3.0 content	
Score 1.0	With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.	
	0.5 With help, a partial understanding of the 2.0 content but not the 3.0 content	
Score 0.0	Even with help, no understanding or skill demonstrated.	

