Packet 3: Integer Addition and Subtraction

Dear Parents/Guardians,

Packet 3 introduces the temperature change and counter models for working with integers. The models are most powerful when used together. Temperature change is meaningful and intuitive. Counters are helpful for visual and tactile learners. Students will represent quantities and add and subtract with the models. Then they will use the models to develop rules for addition and subtraction of integers.







Resource Guide (RG) Part 1, pages 31-39

Addition and Subtraction

4 + (-5) = -1	2 - (-4) = 6
Counter Model	
Start with a value equal to zero.	Start with a value equal to zero.
Create a value of 4.	Create a value of 2.
Add 5 negatives.	Since there are not -4 to remove, create 4 zero pairs.
Notice 4 zero pairs.	Remove -4.
1 negative is left.	6 positives are left.
Temperature Model	
Start with a temperature of zero.	Start with a temperature of zero.
Create a temperature of 4.	Create a temperature of 2.
Add five cold nuggets.	To remove 4 cold nuggets means the temperature is
1 cold nugget is left.	4 degrees hotter.
	The temperature is 6.