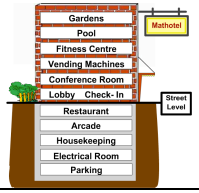
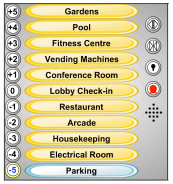
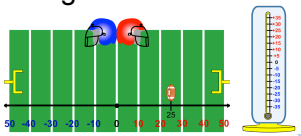
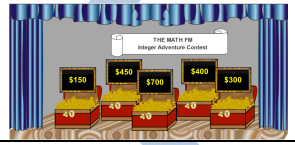
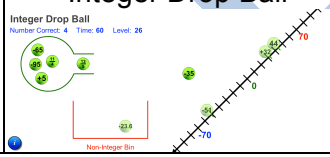
Representing, Comparing and Ordering Integers

CLIP 1: Using Integers to Describe Location

Activity Number/Type	Activity Title	Critical Learning	Prompting/scaffolding Question
1.1 Minds ON	Mathotel 	**connecting** the use of integers as positions to real life situations involving positions	The mathotel had floors above and below the lobby. What are some other situations that you can think of where something is “above” or ‘below” a location. (e.g. above and below sea level, above and below zero – temperature
1.2 Action	Identifying Locations Relative to Zero 	**connecting** the set of integers to the more familiar set of whole numbers **making sense** of zero’s role in positioning other integers on the number line	Select and state the number of 1 location above 0 and 1 location below 0. If the 0 is changed by going up 2 spaces, what will be the new names of your selected locations? How do you know? (show a vertical number line with only 0 showing, with 5 tics going in the + direction and 5 tics going in the – direction.)
1.3 Action	Integer Number Lines 	**representing** a position on a number line with an integer or an integer with a position on the number line, and with a variety scales **communicating** position by using mathematical vocabulary including the terms “opposite”, “negative”, and “integer” **reflecting** on what an opposite means, including the term “equidistant”	
1.4 Consolidation	Integer Adventure Contest 	**representing** a position on a number line with an integer or an integer with a position on the number line, and with a variety scales **making sense** of zero’s role in positioning other integers on the number line	
1.5 Consolidation	Integer Drop Ball 	**representing** a position on a number line with an integer or an integer with a position on the number line, and with a variety scales **connecting** the set of integers to the more familiar set of whole numbers	

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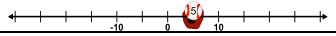
1.6 Show What You Know			
1.6.1 Assessment Game	Catch a Bouncing Ball (on-line) 	**representing** a position on a number line with an integer or an integer with a position on the number line, and with a variety scales	
1.6.2 Assessment Quiz	Integer Location Quiz (on-line, printable)	**representing** a position on a number line with an integer or an integer with a position on the number line, and with a variety scales **reflecting** on what an opposite means, including the term “equidistant” **making sense** of zero’s role in positioning other integers on the number line	
1.6.3 Assessment Game	Integer Cards (printable)	**representing** a position on a number with an integer or an integer with a position on the number line, and with a variety scales	
1.6.4 Assessment Organizer	Frayer Model i.e. characteristics /facts of integers, examples, and non-examples, and a definition in their own words	**Reflecting** on and **communicating** their understanding of integers, including **representing** an integer on a number line, **making sense** of zero, and understanding of opposite integers.	
1.6.5	Open Questions	**making sense** of zero’s role in positioning other integers on the number line **representing** a position on a number line with an integer or an integer with a position on the number line, and with a variety scales **communicating** position by using mathematical vocabulary including the terms “opposite”, “negative”, and “integer” **reflecting** on what an opposite means, including the term “equidistant”	