Science Unit Map ~ Grade K ~ Kit D

Kit D Focus:

Force and Motion

Big Ideas:

- The position of the observer and object affect the description of motion.
- Pushes and pulls are forces that change the motion of objects.
- Change in motion is affected by the shape and mass of an object.
- Objects on Earth fall down toward the Earth unless something holds them up.

Resources	GLCEs	Battle Creek Kit Activity	Vocabulary
Battle Creek Kit: "Kindergarten in Motion" Trade Books: I Fall Down, Vicki Cobb, 1004 And Everyone Shouted Pull, Claire Llewellyn, 2001 Move It!, Adrienne Mason, 2005	Force and Motion P.FM.00.11 Describe the position of an object (above, below, in front of, behind, on) in relation to other objects around it. P.FM.00.12 Describe the direction of a moving object (for example: away from or closer to) from different	1,2,10,11	push pull direction speed shape size mass at rest above below in front of behind on under between on top away from closer to toward fast, faster slow, slower
Technology: Please see additional resources in your unit binder	observers' views. P.FM.00.21 Observe how objects fall toward the Earth. P.FM.00.31 Demonstrate pushes	7,8,9 2,3,5,6,9	
	and pulls on objects that can move. P.FM.00.32 Observe that objects initially at rest will move in the direction of a push or pull.	2,3,5,9	
	P.FM.00.33 Observe how pushes and pulls can change the speed or direction of moving objects.	2,5	

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P.FM.00.34 Observe how the shape and mass of an object can affect motion.	2,4,6,8	
S.IP.00.11 Make purposeful observations of the movement of objects in response to pushes and pulls.	1,2,3,4,6,7,8,9,11	
S.IP.00.12 Generate questions based on observations of objects falling toward the Earth.	1,2,4,7,8,9	
S.IP.00.13 Plan and conduct simple investigations about pushes and pulls changing the speed or direction of moving objects.	2,3,4,6,7,8,9	
S.IP.00.14 Manipulate simple tools (pencil) to collect data about the affect of pulls or pushes changing the speed or direction of moving objects.	3	
S.IP.00.16 Make accurate measurements with appropriate (non-standard) units for the measurement tool	3,8,9	
S.IP.00.16 Construct simple charts from investigations about pushes and pulls changing the speed or direction of moving objects.	6,9	

S.IA.00.12 Communicate and present findings of observations about the motion of an object	1,2,4,5,6,7,8,9,10,11	
S.IA.00.13 Develop strategies for information gathering	1,2,3,4,5,6,7,8,9,10,11	
S.IA.00.14 Develop strategies for information gathering	3,5,6,8,9	
S.RS.00.11 Demonstrate the effect of pushes or pulls on the motion of objects through various illustrations, performances, models, exhibits or activities.	6,7	