## Gr. 2 - Understanding Structures & Mechanisms Movement

## **Jitter Critter**

Specific Expectations:			
2.1 Follow established safety procedures during science and technology investigations.			
2.2 Investigate and describe different kinds of movement.			
2.6 Use appropriate science and technology vocabulary, including <i>push</i> , <i>pull</i> , <i>beside</i> , <i>above</i> , <i>wheel</i> , <i>axle</i> , and <i>inclined plane</i> , in oral and written communication.			
3.1 Describe different ways in which objects move.			
3.2 Identify different ways in which the position of an object can be changed.			
Big Idea (for lesson):			
Students investigate the forces causing moveme			
depends on the competing forces of friction and	-		
both the forces themselves and the resulting motion.			
Accommodations:	Differentiated Instruction:		
Increase time	Content: Use demo to show the content as		
	you offer verbal descriptions.		
Manipulatives	Process: Have students work in pairs and		
Chunking	support each other if physical impediments		
Step-by-Step	exist.		
Scaffolding	Product: Students may show their final		
☐ Copy of Notes	product in pairs, and communicate their		
Student Grouping	findings either verbally, visually, or through		
	written means.		
	Other:		
Bloom's Taxonomy:	Multiple Intelligence:		
	✓ Verbal/Linguistic		
Comprehension	□ Logical/Mathematical		
Application	∀ Visual/Spatial		
Analysis	Bodily/Kinesthetic		
Synthesis	Naturalist		
Evaluation	Musical/Rhythmic		
	Interpersonal		
	Intrapersonal		

## **Delivering The Lesson:**

Portion &	Grouping:	Introduction:	Materials
Timing			

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Movement

Minds On: W S I Teacher can do a d	emonstration to introduce   Jitter-Critters
10 mins	ct on movement for the - Floating
lesson; either watc	h the video or do the demo Rice Trick –
in-person.	Cool Science
Ask students (with	out showing the whole Experiment.
video) why they thi	ink the bottle did or didn't mp4
move? (Answer: the	ere was more rice in one
bottle to rub agains	st the chopstick and prevent   2 – Plastic
it from sliding.)	bottles
	y think friction is useful, and 2 –
	with any situations where Chopsticks
friction would be b	
	2 – Beakers
	d their own jitter-critters
1 — 1 — 1 — 1	structions on the handout. Handout
	te and ask questions of the (Materials
different groups:	listed)
	on is involved with this
·	Answer: Yes, friction stops
	nent down the pole.)
	the jitter-critter's motion
using scientific lang	_
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tter-critter fall again?
	of gravity down on the
critter)	roil what do you think will
	oil, what do you think will There will be less rubbing
	eaning it will fall more
quickly.)	earning it will juil more
	ou tighten the coil?
	be more friction, and the
	ay put or fall more slowly.)
	compare how quickly their
	nd discuss whether friction
	onger force at play.
	the board and have
students suggest si	tuations where it would be
	be greater (ie. running
	ns where it would be better
	ssened (ie. the bottom of
skis).	