Scien Soccer



Agenda

- Personal Introduction
- Poem & Class Expectations
- Vocab Fun
- Team Builder: Questions from a Hat
- 21st Century Skills

•	Course	bad to the WOW	/!
•	First De		
•	Soccer	Space & Gravity	/
•	Review		



. Stone



















Poem & Cl

pectat

I am an individual. I have dignity and worth. I am unique. I deserve respect and I respect others. I am part of the human family. I have something special to offer the world. hmitted to ul world for all of us. difference, I can accomplish whatever l set out to do. and so c

Lam the key to peace





Questions from a Hat

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- Class 5
- Class 6
- Clas

- Class 8
- Class 9
- Clas<u>s 10</u>

Falling Obj Group Demo









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- 21st Century Skills
- Falling Objects Demo Recap
- Videos: Soccer & Gravity Space & Gravity
- Gravity Definition
- Gravity Brainstorm Competition



21st Cerestina kills in Science of S

Make Observations, Inferences and Draw Conclusions

Use Technical Language and Vocab

Falling Obj Group Demo

- 1. Which object will me to table first and
- 2. What if we did the demo o Which object would hit the m
- 3. What if you were to drop a 5 lb. weight with the tennis ball? Which would hit the table first?

4. What if with the table firs

ere to drop a piece of paper ? Which one would hit the









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Resistance to Froofan



Air Resista

The force of air pushing against a

Acceleration

Increase in the rate or speed of something

Gravity

• The ford the senter of the earth, or toward any other physical body having mass


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Agenda

- Team Builder
- Mini-Lesson with Volunteers
- Activity 1 : Center of Gravity
- Activity 2 : Potential Energy vs Kinetic Energy
- Activity 3 : Acceleration, Velocity and Deceleration
 - Outsid
- Exit Tick

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Make Observations, Inferences and Draw Conclusions

Use Technical Language and Vocab

Center ravity

The center of mass of an object in the presence of a uniform gravitational field.

1. Why is the center or grandy of a base semibat not at its midpoint? Draw to support your answer.

2. How far can an object be tipped over before it topples over? Draw a picture to support your answer.





Air Resista

The force of air pushing against a

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Gravity

• The ford the senter of the earth, or toward any other physical body having mass

Exit Ticket



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Torque







Seconds						
Name	1	2				
Liam	3.6	6(2.4)				
Amir	5.99	2.99				
Takayai	3.57	2.69	4.6			
Mr. James	2.6	2.38	2.8			
Feet per Second (Velocity)						
	1	2	3			
	13.89	20.83	11.96			
	8.35	16.72	7.86			
Takayai		18.59	10.87			
Mr. James		21.01	17.86			

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P



Air Pres





Magnus Eff











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		Mr.









 Recognition Reaction Time: Stimulus to respond to and stimulus to be ignored



Simple Reaction I







Choice Reaction I



Simple Reaction

 1st person holds ruler while 2nd and index finger at the bottom of s thumb er

 1st person drops ruler and the 2nd person grasps the ruler between the thumb and the index finger

took the 2nd person to react and

- Record the number at the 2nd persons fingertips using worksheet
- Calcula catch tl
 - Repeated and partners have recorded enough reaction times

Recognition React

 1st person holds ruler while 2nd per index finger at the bottom of a vertice

umb and

- 1st person drops ruler and the 2nd person grasps the ruler between the thumb and the index finger
- Determine a particular word as a signal to catch the dropped ruler
- Use a v
 ruler ca
- 1) Recommendations of the second persons fingertips using worksheet 2) calculate the time it took the 2nd person to react and catch the falling ruler 3) Repeat until both partners have recorded enough reaction times

Choice Reader Time

 1st person holds ruler while 2nd per index finger at the bottom of a vertice

umb and

 1st person drops ruler and the 2nd between the thumb and the index finger the ruler

 The 2nd person will catch the ruler with any word as a cue – do not predetermine the word – . However the 2nd person much also respond with the word.

•	Keep tra word as	that do not co vell	ount because	of lack of a
•	If there the 2nd	association ²	1) Record the orksheet 2) Ca	number at Iculate the
	time it took the 2nd per ruler 3) Repeat until b reaction times	erson to react oth partners h	and catch the ave recorded	falling enough







21St Century Skills & Draw Conclusions

 Use Technical Language and Vocabulary





The center of mass of an object(s) uniform gravitational field

hce of a
Air Pressure

The pressure exerted by the atmos





Air Resistance







Torque

A measure of the turning force of a

Aore Science of Soccer

- Kinetic Energy
- Acceleration
- Velocity