				Skate	Park C	hallenge	8DMS		
NAME:				DATE:					
STUDENT	#:			TEACHER	:				
Helmet Tests – Section 2 – MASTER									
Helmet Te Part A	sted: <u>BL</u>	<u>ACK</u>		Part B					
Part A Posi	tion	Pumpkin Energy (no helmet)	y	Part B Posi	tion	Pumpkin E (with your h			
A	l l	1		4	\	0			
В	8	3		E	\$	1			
C		7		С		5			
C		13		D		11			
E		<u>20</u>		E		<u>18</u>			
the energy a	Part C: Determine the max amount of energy absorbed by your helmet type (Use Position E). Record the energy absorbed by other groups during the class discussion of results. Pumpkin, No Helmet – Pumpkin, with Helmet = Energy Absorbed by Helmet (20 – 18 = 2)								
	Max	Energy Absorbed	(Joule	es) by Ea	ch Helme	Туре			
	Red	10		Pink		14			
•	Black	<u>2</u>	C	Eagle)	12			
	Blue	8		Gree	า	4			
		I		1]		

This curriculum is produced by Advanced Manufacturing & Prototyping Integrated to Unlock Potential (AMP-IT-UP), National Science Foundation Award #1238089. Georgia Institute of Technology's Center for Education Integrating Science, Mathematics, and Computing (CEISMC)

				Skate Park	Challenge	8DMS		
NAME:			D	ATE:				
STUDENT	#:		т	EACHER:				
Helmet Tests – Section 2 – MASTER								
Helmet Tes Part A	sted: BLI	JE	F	Part B				
	Part APart BPositionPumpkin Energy (no helmet)PositionPumpkin Energy (with your helmet)							
Α		1		Α	0			
В		3		В	0			
С		7		C	0			
D		13		D	4			
E		20	E		12			
the energy ab	Part C: Determine the max amount of energy absorbed by your helmet type (Use Position E). Record the energy absorbed by other groups during the class discussion of results. Pumpkin, No Helmet – Pumpkin, with Helmet = Energy Absorbed by Helmet (20 – 12 = 8)							
	Max	Energy Absorbed	(Joules	by Each Heim	еттуре			
	Red	10		Pink	14			
	Black	2		Eagle	12			
	Blue	8		Green	4			
					1	1		

			(Skate Park C	hallenge	8DMS		
NAME:			DA	DATE:				
STUDENT #:				ACHER:				
		Helmet Test	s – Secti	on 2 – <mark>MASTEF</mark>	2			
Helmet Tes Part A	sted: HA	LO	Pa	ırt B				
Position		Pumpkin Energ (no helmet)	У	Position Pump		Pumpkin Energy vith your helmet)		
Α		1		Α	0			
В		3		В	0			
С		7		C	0			
D		13		D	1			
E		20		E	8			
he energy ab	osorbed by mpkin, Nc	nax amount of energy other groups during t Helmet – Pumpkin, (Energy Absorbed	he class dis with Helm 20 – 8 = 12	et = <u>Energy Absork</u>)	ed by Helmet			
	Red	10		Pink	14			
2	Black	2	P	Eagle	12			

Max Energy Absorbed (Joules) by Each Helmet Type								
	Red	10		Pink	14			
0	Black	2		Eagle	12			
	Blue	8		Green	4			

				Skate P	ark C	hallenge	8DMS	
NAME:				DATE:				
STUDENT	#:			TEACHER:				
Helmet Tests – Section 2 – MASTER								
Helmet Tes	sted: GRI	EEN						
Part A Posit	ion	Pumpkin Energy		Part B Positio	n	Dumpkin E	porav	
FUSIL	1011	(no helmet)	y	Position Pumpkin Ene (with your hel				
Α		1		Α		0		
В		3		A 0 B 0 C 4				
C		7		C		4		
D		13	D			9		
E		20		E		16		
the energy ab	sorbed by	nax amount of energy other groups during th Helmet – Pumpkin, (2	he class	discussion of Imet = <u>Energy</u>	results.). Record	
	Max	Energy Absorbed	(Joule	es) by Each	Helmet	Туре		
	Red	10		Pink		14		
	Black	2	C	Eagle		12		
and the second s	Blue	8		Green		4		
	11					1		

				Skate	Park C	hallenge	8DMS	
NAME:				DATE:				
STUDENT	#:			TEACHER:				
Helmet Tests – Section 2 – MASTER								
Helmet Tes	sted: PIN	К						
Part A	lion	Dumpkin Enorg		Part B	ion	Dumpkin E	DOTOV	
Posit	lion	Pumpkin Energy (no helmet)		Position		Pumpkin E (with your h		
A		1		Α		0		
В		3		В		0		
C		7		C		0		
D		13		D		0		
E		20		E		6		
the energy at	Part C : Determine the max amount of energy absorbed by your helmet type (Use Position E). Record the energy absorbed by other groups during the class discussion of results. Pumpkin, No Helmet – Pumpkin, with Helmet = <u>Energy Absorbed by Helmet</u> ($20 - 6 = 14$)							
	Max	Energy Absorbed	(Joule	es) by Eac	h Helmet	Туре		
	Red	10		Pink		14		
	Black	2	O T	Eagle		12		
	Blue	8	-	Green		4		
	1 1			1		1	1	

			Skate Park	Challenge	8DMS			
NAME:			DATE:					
STUDENT #:			TEACHER:					
Helmet Tests – Section 2 – MASTER								
Helmet Tested: RE	D		D . D					
Part A Position	Dumpkin Energy	-	Part B	Dumpkin E				
Position	Pumpkin Energy (no helmet)		Position Pumpkin Ener (with your helr					
Α	1		Α	0				
В	3		В	0				
С	7		С	0				
D	13		D	3				
E	20		E	10				
the energy absorbed by	o Helmet – Pumpkin, v	ne class	discussion of results. Imet = <u>Energy Abso</u>). Record			
Мах	Energy Absorbed	(Joule	es) by Each Helm	et Type				
Red	10		Pink	14				
Black	2	C	Eagle	12				
Blue	8		Green	4				
	<u> </u>		1		1			