	Content Statements 1. Properties of materials can be								ition	& F	orce				Ene	ergy		
	Topic:	Phys	ical pro	opertie	s		Topic	: Force	e and C	Gravity			Topic	: Soun	d and	Energy	1	
Grade k-1	<ol> <li>Properties of materials can be observed, measured, and predicted.</li> <li>Explore how the size, weight, shape, color, and temperature are properties of objects.</li> <li>Recognize that these are physical</li> </ol>						1. A 2. F n 3. T 4. T d tt	force forces a novement be more the postes another arrity of the graduates where the graduates were the graduates where the graduates were graduates were the graduates were the graduates were the graduat	are need and red and red and red by lower objections.	sh or pueded to nobjects measur an objecting ect. There a here is	change tt. can be ed. ect is it in rela pulls ob	ation ojects e	1. ( 2. 3 3. 4. 1 5. 1	oroduce couching Sound e Waves create o Light er	can be sound g) energy move a different aves do	e made I (tappir moves at different t sound hoves in o not be	to vibra ng, blow in wave ent rates s. waves end, but	ving, es. s to
			size, we		ct, mea olor, sh		_			hange, sh, pull	motion	,	_	erms: s low, lou			e, waves low	5,
	w	ob	2	13	12	k1	w	pf	2	13	12	k1	w	lh	2	13	12	k1

	Pro	perties	& C	hang	je		Pos	ition	& F	orce				Ene	ergy		
	Topic: S	olids, liqu	ids, & ç	gases		Topic	: Force	e and C	Gravity			Topic	: Magı	netism	and Er	nergy	
Grade 2	Content 1. Exploshap phys 2. Mate (state and ( 3. Expla gase 4. The   chan mixe	1. A 2. Fo mod 3. Th ob 4. Th de ar 5. 5) ob	force is orces a coverne motion served ne posities cribed nother of Gravity of the plant of the	tement s a pusl re need nt of an on of old and m tion of a d by loo object. y is a foo the gr aces wh	n or pull ded to concern objects on object an object cating it orce that ound.	hange an be d. ct is in relat t pulls There a re is me	ion to re ore	1. I 2. S 3. N	dentify electrici Sound i and car and volu Magnet	ty, graves made s made n be des ume. s can b bjects r	eserve for the vity, and experience by viboscribed be used	orces: s d magnerating o by its p to mak ithout b	etism. objects oitch				
	Key term liquid, ga physical p shape, te	s, substar roperty: s	ice, mix, size, wei	cool, h	neat,	_		force, c vity, pu	•		,	volum	ne, forc	e, statio	electri	requend icity, gra t, repel	avity,
	w o	2	13	12	2	w	pf	2	13	12	2	w	lh	2	13	12	2

	F	rope	rties	& C	hang	je		Pos	ition	& F	orce				Ene	ergy		
Grade 3	4 1841						Conte 1. E a c 2. T o (i 3. P	ent Sta inergy i bility to hange. The cha bject is magnitu otentia when ar	tement is a force cause nge in the directly ude) of all energy object energy in	se that I motion the mot y relate the forc y is sto is at re s displa	or creation of a dito the ce. red energest.	ate an e size ergy	Conto 1. E 2. E 5 5 6 7 4. L	earth in Energy orms: hand ma Energy blace to sound ward woving	tement comes the for is rever neat, ele gnetic e can be anothe vaves, objects oves in eristics	from the of ligated in ectrical, carried er by water to waves	various, light, so from o ater warent current.	ound, ne ves &
	Key t	erms: resoft mat	natter, <sub> </sub>			erties,	(magr	nitude),	energy, force, penergy,	ootentia	al energ	gy, at <b>3</b>	Key t	erms:	heat en	•••	hermal) und ene	

	F	rope	erties	& C	hang	je		Pos	ition	& Fo	orce				Ene	ergy		
	Topic	: Matte	er is co	nserve	ed		Topic	:: Force	es in N	ature			Topic	: Ther	mal En	ergy		
Grade 4	nee in the second secon							Companature on object of the good of the golden of the gol	is a for ground. where to cional for objects r withou sition o	contras ces of c ce that There a here is rce tha exert a at conta	pulls o are son more n other force o	and bjects ne rs. in one	1. E 2. H 3. E 4. M	energy one formand modele electric electric Magnet electric electr	tement can be in to and tion). hermal e ctricity a ity runs ism is a es in ea ity and related.	transfoother (henergy) are form in an e a strong arth's comagnet	neat, lig , magnens of er lectrica force tore.	ht, etism, nergy. I
	-		matter hange				unbal	anced f	palance force, g t, indire	ravity, f	orce fie	eld,	energ energ open	y, hea y, moti	transfor t energ on, maç closed	y (thern gnetism	nal), lig ı, electr	ht
	w	ob	2	13	12	4	w	pf	2	13	12	4	w	lh	2	13	12	4

	Prope	rties 8	& CI	hang	je		Pos	ition	& F	orce				Ene	ergy		
	Topic: Ator	ns				Topic	: For	es tha	at Affe	ct Mot	ion	Topi	c: Ligh	nt and	Sound	i	
Grade 5	1. All matter particles 2. The arrathe physic properties 3. Atoms mandecules 4. An elemical kind of a element 5. Scientist instrume (the smanyiewed, for viewing structure)	er is made called an ngement ical and es of mate and combes. ent is contom and chart. s have dents to invaller the cathe large	e up of toms. t of ato chemi- ter. bine to mpose organ levelop vestiga bbject	oms imical oformed of onized of onized of onized of one of the one of the office of th	ne ne n an	1. T c d d 2. T n tl a 3. N s 4. T c c 5. V	The moth hange lown, of the amount Movement for the chart of an ob Veight in the moth the chart and	r changount of a s of the of force ent can inge in ject recipions a me	an objection obj	p, slowing	ed on e by tion	1. I	Light arenergy ways. Light tradirection object of anoth Light capping absorbations of the rate of the	that be avels ar n until in or move ner. an be re orbed. is produ	nd are for have in mad main to interact interact from effected by tration is	orms of predict stains its with one me refract vibratires related	an dium ed,
	Key terms: a electron footp		olecule	e, elem	ent,	_		orce, m s, gravit		accelera ed	ation,	pitch,		ncy, ref		um, wa refracti	
	w ob	2	13	12	5	w	pf	2	13	12	5	w	lh	2	13	12	5

		Prope	rties	& C	hang	ge		Pos	ition	& F	orce				Ene	ergy		
de 6	Content Statements  1. All matter is made up of small particles called atoms.  2. There are empty spaces between the atoms that make up a substance.  3. There are distinct characteristics of an element that differentiate it from other elements.  4. Atoms and molecular activities can				Conte 1. T m 2. S m a 3. A b	ent Sta hermal notion on nolecular solids, I notion of ttraction on object	tement energy of an ate es in a si iquids, a of and the n betwee ct's pos	otion  refers om and substar and gas ne space een par ition an	to the the nce. ses varicing and ticles.	d d can	2. 3. 4.	ent Sta There a energy Objects have ki Objects energy (potent Therma	tic & Posterior two series and series and series and series and series and series and energal energents.	otential ts catego c and poubstance nergy. ubstance esult of rgy). gy is the	otential ces in m ces can their po e total	notion have esition		
Gra								ach at	of time om take nd is in	s up sp			5.	in a sul Solar e through form of	ostance nergy r n radiat light. It	e. reaches ion, mo t power	ergy pre Earth estly in t s winds he wate	he s,
	mole	terms: a e, nanote neer, nu	chnolo	gy, ato	mic	ment,	_		thermal olid, liq				energ	y, moti		est, the	/, poten ermal er	
	w	ob	2	13	12	6	w	pf	2	13	12	6	w	lh	2	13	12	6

	P	rope	rties	& CI	hang	je		Pos	ition	& F	orce				Ene	ergy		
	Topic	: Elem	ents				Topic	: Simp	le Mac	hines			Topic	: Form	s of E	nergy		
Grade 7	1. 2. 4. 4.	determinand interpretation of the conservation	perties ned by eraction orm elected identification in the control of the control	of matt atomic s. ements ed by th en deve compa	structu in natu eir eloped f ire/cont ter is I reactio	re that that trast	1. A from the front of the fron	All objections of the control of the	tement cts expensed force equal to to the ob- erty of si This ca bu know have p edict what and pot machin deled to musculo	erience nersed on an conthe web ject had ubstand an be more ropertion ential ential en	in a flui bject in ight of s displa es is it easure ss and es that I hey wil nergy a er e and the ke the	id. a a the aced. s ed help I float are	1. U tra no 2. E tra w 3. Tl th ra 4. M 5. C (v h 6. S	ansformever los explain hansfer exith mathermal arough convections on the color end old a lagnetis explained by the color end old end end exition explained exition explained exition explained exition explained exition explained exition explained exition exition exition explained exition exitio	and that ned or to st. now ele- energy ter. energy conduc- urrents on ene- urrents, be cov- anet) ergy rea , mostly	t energy ransfer ctromag when the is transtion, control electric rgy powered in aches Ey in the	can be red but gnetic was ferred nivection ers wine depth in form of ed in de	is vaves ract n, and el in ds, cycle. n
	protor of Ele	n, electi ments,	on, neu Law of	olecule itron, P Consei e, solut	eriodic rvation,	Table	mecha poten wedge	anical e tial ene	ouoyant energy, ergy, sin y, whee	kinetic nple ma	energy chine,	, lever,	condu	uction, i	radiatio	n, elect	r, conve romagn er, wav	etic
	w	ob	2	13	12	7	w	pf	2	13	12	7	w	lh	2	13	12	7

		Prope	rties	& C	hang	e		Pos	ition	& F	orce				Ene	ergy		
	Topi	c: Atom	ic Stru	cture			Topic	: Magn	itude a	ınd Dir	ection		Topic	: Pote	ntial Eı	nergy		
Grade 8	1. 2. 3. 4. 5.	tent Star The strucompose electror orbits. Rearrar position is evide potential change Living of molecul carbon, oxygen, Atoms a by build Chemic absorb have no Chemic in which different molecul	ed protes that resident as that resident as the formal energy of the following and more ing up all reactions at combines.	of the attons, nemove and the character of the attons in the character of	eutrons, round in to new substar nemical nost like action). made of argely of argely of argente of process ction. e process of	, and n nces ely f of fur. olids erns. or ses	1. F	ent State orces I direction ocation. Explain objects of ouching The motor ouching and speared storing estarticity octential	have many in reference to the contact of a c	agnituderence of the control of the	tween beliects they a ct is alv t to a aced for sition, ti direction ergy ar form o	are in re not vays rces ime on. re	2. 3.	There a for pote gravita electric energy Electric transfe light, so energy Light c transm matter, detecte Light is wavele retinal differer	ential ention, elacal, and cal ener red into cound, and ted, and ted by the calls red to cells r	ariety of nergy, sastic, chemagne rgy can o kinetic nd/or meflected absolute eye. ure of nocolors) act differengths	such as nemical, tic pote c, therm agnetic brit mus nany and that erently t	ential  nal,  ted,  t be
	proto	terms: a on, electr nical rea	on, neu				force,	erms: b motion eration, ical force	, magni positio	itude, s n, mag	peed, netic fo		angle reflec	of refle t, refrac	ection, a ct, absc	magneti angel of orb, elec I energy	incider ctrical e	nce,
	w	ob	2	13	12	8	w	pf	2	13	12	8	w	lh	2	13	12	8