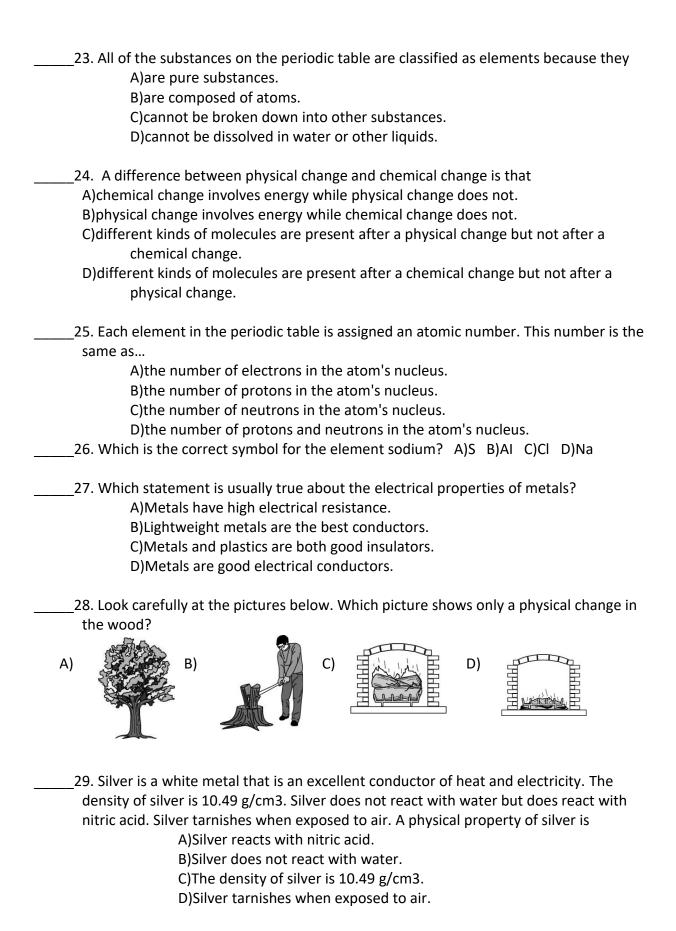
8" grade Georgi	a Milestone prac	lice test						
1. Which correct?	statement about	the molec	ules in i	ce and	the mo	olecules	in liquid	water is
· ·	olecules in ice hav olecules in ice cor						· ·	
•	olecules in ice hav olecules in ice are			_				="
2. Which o	of the following is	a compou	ınd? A)d	oxygen	B)wa	ater C	nitrogei	n D)air
3. Which s	ymbol represent	s carbon?	A)Ca	B)N	C)K	D)C		
	e of a chemical cl)melting popsicle	_		ed buck	ot of w	ator		
	spinning top.	•		ing car				
	e that collects or	the outsic		_		lts from	n the pro	cess of
	evaporation.)condensation.		•	limatioi orizatio				
	r balloon rises be							
)molecules becor	_			ا محمانی	لمملمما		
)molecules move)molecules are le			=				
)molecules becor			•			heated.	
	d, liquid, and gas			ter diffe	er from	each o	ther in	
)the mass of the i)the size of the in							
)the net electrica			dividual	molec	ules.		
)the average spe	_					cules.	
	ent chemical sub							
A)piece o B)cup bro	of cloth is cut. eaks.	•	lle burn e of cha		ıks			
9. Carbon	dioxide is A)ar	n element.	B)a c	ompou	ınd.	C)a sc	olution.	D)a mixture.
10 Δ cher	nical change com	hining two	o eleme	nts resi	ılts in			
A)an ato	-	_		lement			ixture.	
11. All pla	nt and animal life	on Earth o	contains	s what o	elemer	ıt?		
A)sulfur	B)carbon	C)silico	on	D)alur	ninum			

12. Which is usually true about metals? A)Metals melt at lower temperatures than any other elements. B)Metals always have their atoms arranged into crystals. C)Metals do not combine easily with nonmetals. D)Metals conduct electricity more easily than nonmetals.								
13. When a gas forms a liquid, which process is taking place? A)freezing B)condensation C)boiling D)evaporation								
magnesium (Mg	eryllium (Be, aton atomic number 1 crons does magnes	2 and atomic	: mass 24) i	n the p	eriodic table. How			
A)ice me	15. Which is an example of a chemical change? A)ice melting B)salt crystals being ground to powder C)water evaporating D)wood burning							
	melting points sho		Substance	e	Melting Point (°C)			
	erial would still be beeswax	e a soliu at	beeswax		62			
В	gold		gold		1,063			
C)lead D)oxygen			lead	ead 327				
			oxygen	-218				
17. Which action would result in a chemical change? A)crumpling several sheets of paper C)peeling and slicing a carrot B)pounding a nail into a piece of wood D)making blueberry muffins 18. The amount of matter in an object is called its A)weight. B)gravity. C)mass. D)force.								
19. A chemical change for a piece of metal would be A)being bent in half. C)being painted. B)getting cut into two pieces. D)getting rusty.								
20. Which symbolizes a molecule of a compound? A)He B)Be C) N_2 D)NaCl								
21. Putting sand and salt together makes A)a compound. B)an element. C)a mixture. D)a solution.								
	symbol Al represei lantimony C)aui		tal on the _l	periodi	c table?			

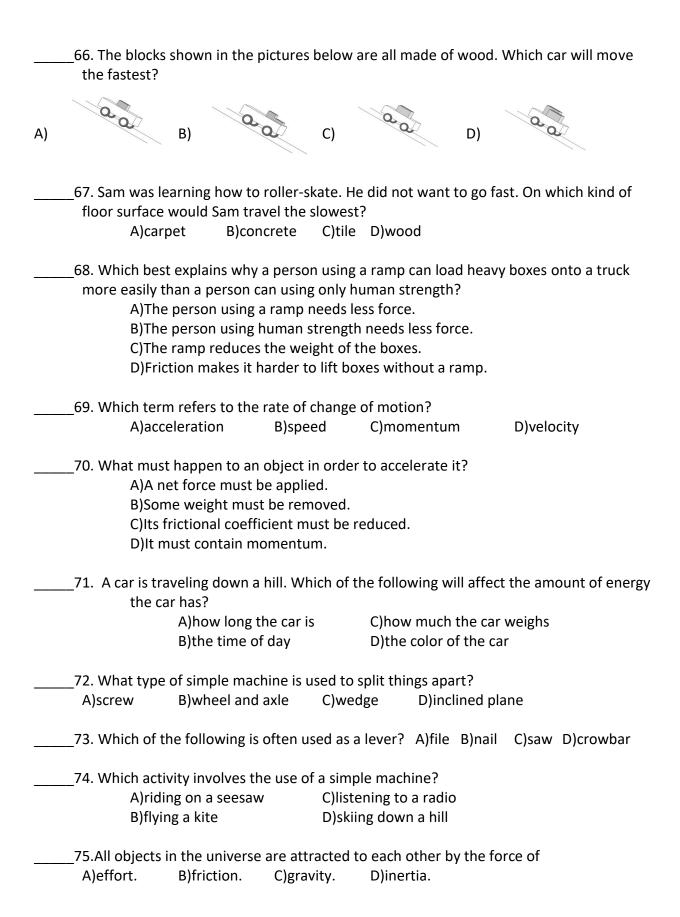


hydrochlori magnesium	c acid (HCl). The	y noticed that /hich of the fol ent? A)odor	bubbles form lowing is a sig	s of magnesium (Mg) to ed, the test tube got hot, and the on that a chemical reaction has C)decrease in temperature
		B)forma	tion of a gas	D)formation of a precipitate
31. Two or m	ore atoms, joine	ed covalently, t	that act as a u	nit, are called a(n)
A)ion.	B)atom.	C)mixture.	D)molecule	
32. Which of	the following pa	articles combin	ie to form mo	lecules?
A)atoms	B)protons	C)electrons	D)compour	
	and contrast mi		mpounds. Wh	ich statement is true about
A)Both mixtures ar	•		roughout.	
•	•		_	s in a definite proportion.
· ·	•		•	by physical methods.
	wo or more eiem emically combine		combined and (compounds contain two or more
0.00	,			• • • • • •
	tance produced	_		0 0 0 0 0 0
	be described as			
A)pure subs B)solution.	•	lecule. npound.		0
LISE FOR OUESTION	NS 35-36° A grai	in of students	were asked to	o identify three white powders.
	_	-		the powders. They computed
=	-		· · · · · · · · · · · · · · · · · · ·	ed in water. One of the powders
		_		hey knew that cornstarch felt
• • •		•	•	of iodine on each white powder. r powder, baking soda reacted
with vinegar. It fizz			arcii. Anothei	powder, baking soda reacted
3		Ü		
	="	-		ence of a physical property of
one of the v	white powders?	A)vinegar fiz	•	ornstarch turned black ornstarch felt slippery
		B)test tube g	מנווטנ שוני	ornstarch feit slippery
36. Which of	these is an obse	erved chemical	property?	
A)co	lor of powders	C)po	wder dissolve	s in water
B)de	ensity of powder	s D)po	wder reacts w	vith vinegar
37. As vou m	ove across the n	eriodic table f	rom right to le	eft within a period, the elements
	ecome less stable		_	rom gases to solids.
B)be	ecome more rea	ctive.	D)change f	rom metals to nonmetals.

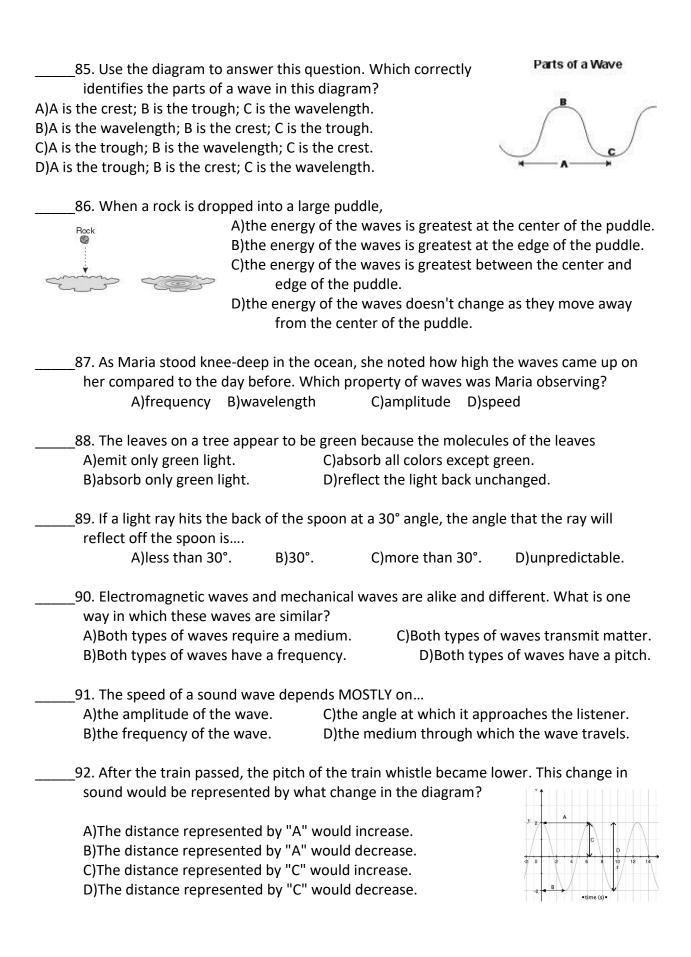
38. Copper (Cu) is a transition metal found statement is true about copper and the two A)All three elements are nonreact B)All three elements are in the same C)All three elements have the same D)All three elements have similar	ive. me period. ne number of protons.
39. Using the Law of Conservation of Matte determine the number of grams of iron so (FeS) that will be produced in this reaction A)24 grams B)32 grams C)56 grams D)88	ulfide Fe S FeS
40. A glass of water kept at room temperate A)water molecules slowly leak through B)water molecules move into the C)water left in a glass starts to boin D)water slowly combines with oxy	air as gas molecules. I and becomes a gas.
41. The bulb of a thermometer is placed in why the level of the liquid rises in the the A)Hot air rises inside the thermom B)Heat energy changes into light e C)The liquid expands when heated D)Heat can change a solid into a lie	neter. energy. d.
placed in a pan of hot water?	uld get hot the quickest when the spoons are
A)glass spoon B)plastic spo 43.When water boils in a pan on a hot burn A)conduction of heat through the pan. B)radiation of heat through the pan.	
44. When ice cream is left out of the freeze change in state is caused by the A)ice cream absorbing heat. B)ice cream giving up heat.	er on a table for a long time, it melts. This C)air absorbing heat. D)table absorbing heat.
45. Through which of the following materia A)glass B)metal C)plastic	als does heat travel the fastest? D)wood

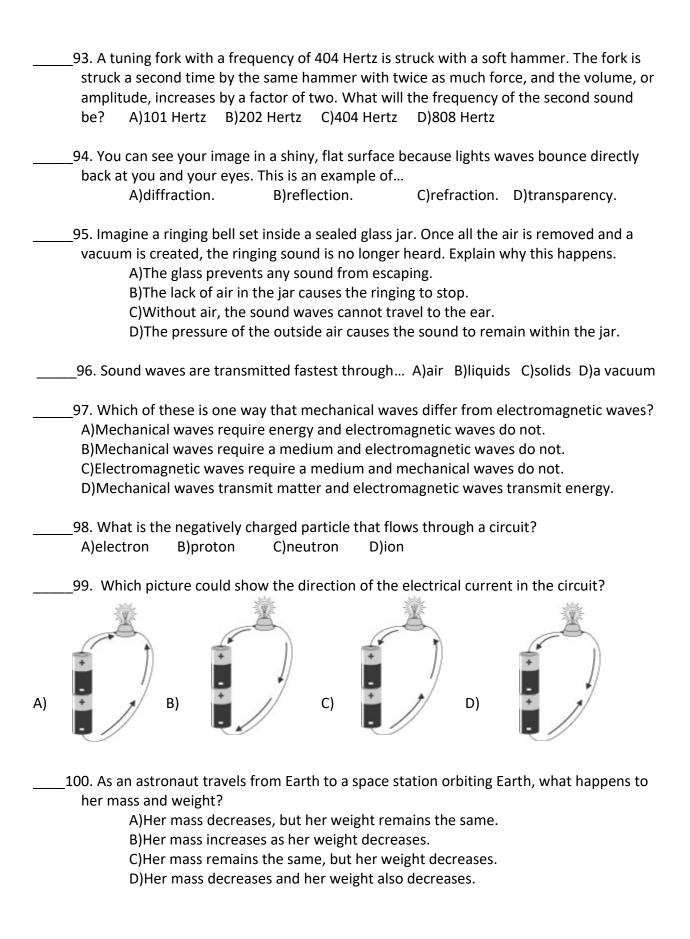
46. Which of the following is an exam	ple of kinetic energy?				
A)a child jumping rope	C)a stuffed toy lying on a table				
B)a swimmer ready to dive	D)firewood stacked in a fireplace				
47. Light is an example of which type	of energy?				
A)nuclear B)gravitational	C)electromagnetic D)chemical				
48. Which represents kinetic energy?					
A)a bear standing in a field of berrieB)a salmon resting in still water	C)a bear holding a salmon it has caught D)a salmon leaping up a waterfall				
49. When a hair dryer is being used, o	one of the energy transformations that takes place is				
A)electrical to chemical.	C)mechanical to electrical.				
B)electrical to mechanical.	D)chemical to electrical.				
50. When electrical energy is "used" be	by an electric light, what really happens to the				
energy? A)It is given off as oth B)It changes to matte	ner forms of energy. C)It stops at the electric light.				
51. In which state of matter are mole	cules in contact with each other but free to move				
around? A)solid B)liqui	d C)gas				
52. A car stopped at the top of a ram	o has				
A)heat energy. B)potential er	nergy. C)kinetic energy. D)mechanical energy.				
(car 2) and, after the collision, both	oumper car (car 1) collides with a bumper car at rest cars move. If momentum is conserved, which				
statement is correct?	areases and the momentum of car 2 decreases				
	creases and the momentum of car 2 decreases. ecreases and the momentum of car 2 increases.				
C)The total momentum of bo					
D)The total momentum of bo					
	a well, George pulled hard on a handle to wind up a				
rope. Which kind of energy was Geo A)chemical energy B)frictional en	rge applying to the handle? ergy C)potential energy D)mechanical energy				
55. What is the process by which hea	t energy gets to Earth from the Sun?				
A)conduction B)radiation C)subc	luction D)convection				
56. Which situation is an example of i	ncreasing potential energy?				
A)pulling a wagon uphill	C)a cat jumping from a tree				
B)emptying a bucket of water	D)a bicyclist stopping at a stop sign				

	a baseball as shown	in the diagram. Which	of these has MOSTLY
kinetic energy?	_		
A)the pitcher		•	
B)the ball	(Sall)	ŭ	
C)the batter			
D)the catcher			
	A	В	C D
58. How do microway	res cook food?		
A)by using electrom	agnetic waves and t	he process of radiation	n
B)by using forced ho	ot air currents throu	gh the process of conv	vection
C)by using the move	ment of charged pa	rticles through the pro	ocess of induction
D)by using direct co	ntact of moving part	ticles through the prod	cess of conduction
59. Bill and Mary wan	ited to have a snack	after school. They hea	ated some milk in a pot on
the stove to make h	ot chocolate. They a	also popped some pop	corn in the microwave
oven. How did Bill a	nd Mary transfer he	at energy to make the	se snacks?
A)heating mi	Ik by radiation; pop	ping popcorn by radia	tion
B)heating mi	Ik by radiation; pop	ping popcorn by conve	ection
C)heating mi	Ik by conduction; po	opping popcorn by rad	iation
D)heating mi	ilk by convection; po	opping popcorn by cor	duction
60. Gasoline, wood, w	vater behind a dam,	and a boulder on the	edge of a cliff all represent
some form of poten	tial energy. What fo	rm of potential energy	y do gasoline and wood
have in common?	A)heat B)light	C)chemical D)	mechanical
61. On a cold. winter	dav. Sheena rubs he	er hands together. Sto	red chemical energy is
	= = = = = = = = = = = = = = = = = = =	-	ervation of Energy some of
the energy is also tra			S,
A)heat energy.	B)light energy.	C)solar energy.	D)kinetic energy.
62 What form of one	uray is associated wi	th the movement of cl	narges, usually electrons?
	ctrical C)heat D)s		ranges, asaany electrons:
Ajenemicai bjere	cirical cylicat by	Journa	
63 energ	gy is produced wher	n a force causes a subs	stance to vibrate, and the
energy is transferred	d through the substa	ance in a wave.	
A)Heat	B)Light C)N	Mechanical D):	Sound
64. 1. Shaina uses a sl	hovel to dig a hole t	o plant a tree. A shove	el is an example of a
compound machine	because it is made	up of what two simple	machines?
A)wheel and	axle and lever	C)screw and wed	ge
B)lever and v		D)inclined plane a	and wedge
•		·	
65. What type of simp	ole machine is used	to pull a flag up to the	top of a flagpole?
A)screw	B)wheel and axle	C)inclined plane	D)pulley



76. On which simple n	nachine is a fulcrum fo	ound? A)pulley B)wh	neel	C)axle D)lever
B)Weight is gravity's C)An object's weight	ut the relationship bet is caused by the weigh force on the object, w and its mass are the s and its mass are inde	nt of the only hich is disame, but	object pushir etermined by t they are me	ng downw y its mass easured d	vard. s.
DJAN Object 3 Weight	. and its mass are muc	pendent	or each othe	1.	
78. Jeff was riding in a	_				
A)The car makes a su	•	•	car changes i		
B)The car slows dow	n gradually.	D)The	car runs out	of gas an	d rolls to a stop.
79. Manuel is coasting	g on his bike. Because	he is not	pedaling, his	bike wil	come to a
	will cause Manuel's b		-		
A)an increase	e in kinetic energy		C)the prope	rty of ine	rtia
B)Earth's mag	gnetic field		D)the force	of frictio	า
80. Simon rolled a bal hill. Which of these I A)mass	I down a hill. The ball s MOST LIKELY stopped ⁻ B)gravity		rom rolling?	ertia	bottom of the
81. This graph shows t	the velocity of a car. W	/hich stat	tement BEST	2 60 E	
explains how the car				Velocity (km/lr)	
	ng, so the car is accele	erating.		15 40	_/_
-	ing, so the car is accel	_		* 30 20	
C)Velocity is increasi	ng, so the car is not ac	celeratin	ıg.	20	Time (hr)
D)Velocity is decreas	sing, so the car is not a	ccelerati	ng.		
82. When doing work			appens whe	n the effo	ort distance is
•	effort force is decrea				
	effort force is increas				
·	resistance force is inc		ala a .a a a al		
U)The	direction of the effor	t force is	cnangea.		
machines make worl	are an excellent scienc k easier. You use a lon ush down on one end	e studen [.] g pole ba	t, you unders llanced on a l	stand how brick to li	v simple ft the rock and
A)fixed pulley.	B)inclined plane.	C)first	class lever.	D)seco	ond class lever.
04 The distance between	roon a wayala araat ara	d i+c +rc	ah is kasura	ac itc	
84. The distance betw A)low tide measurement.	B)water depth.		gn is known i e height.		e length.
,	,	-,	- 0	_ ,	





101. The force	that holds you	to Earth's sur	face is		
A)gravity.	B)weight.	C)mass.	D)pre	ssure.	
102. Which is to A)Both are for B)Both cause	orces. e energy loss.	C)Both cau D)Both cau	se things t se heat.	o speed up.	
	gines can force	_	=		
•	causes falling	-	•		
•	bjects always f	=		ce.	
D)Airplanes a	are able to fly v	without falling	g to the gro	ound.	
104. How can t	he materials in e iron nail with	_	be used to	make a magne	et?
, ·	oops of wire to				Wire
C)connect th	e ends of the wir	vire to each o	ther	itery	Battery Iron filings
		· •	r weight w	ould be about	one-sixth less than it is
	s is because th				
•	a much small			arth.	
•	nuch less mass ates much slov				
•	no water on i				
,					
106. A(n)			ly one pat	h for the curre	nt to take.
A)ope	en B)pai	rallel C)re	esistant	D)series	
107. A circuit co	_	ht bulbs. One	light bulb	=	he other three stay lit.
A)ope	en B)ser	ies C)pa	arallel	D)resistant	