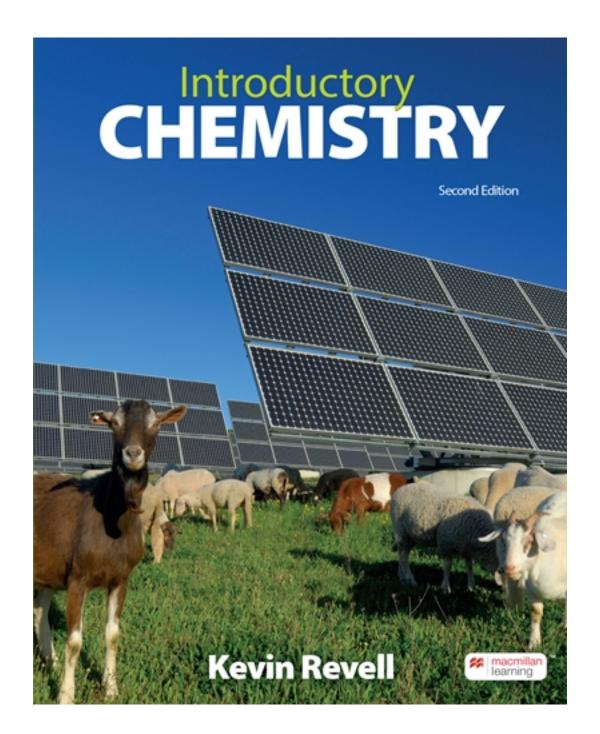
Test Bank for Introductory Chemistry 2nd Edition by Revell

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# Test Bank

Name:	Class:	Date:
<u>Chapter 1</u>		
1. Chemistry that is essential to the unders a. physics	tanding of the human body is found	d within the field of
b. biology/medicine		
c. materials		
d. geology		
ANSWER: b		
2. Chemistry that is essential to the unders a. physics	tanding of energy and motion is for	und within the field of
b. biology/medicine		
c. materials		
d. geology		
ANSWER: a		
3. Chemistry that is essential to the unders a. physics	tanding of plastics and steel is four	nd within the field of
b. biology/medicine		
c. materials		
d. geology		
ANSWER: c		
4 is often referred to as the "central	l science" because it connects with	every other field of science.
a. Chemistry		
b. Biology/medicine		
c. Physics		
d. Geology		
ANSWER: a		
5. Which task is NOT impacted by chemis	stry?	
a. painting a picture on a canvas		
b. playing a violin		
c. fertilizing a field		
d. All of these tasks are impacted by c	hemistry.	
e. None of these tasks is impacted by	chemistry.	
ANSWER: d		
6. Which task is NOT impacted by chemis	stry?	
a. improving water quality		
b. harvesting solar energy		
c. synthesizing new medicines		
d. All of these tasks are impacted by c	hemistry.	

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#### Chapter 1

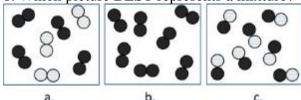
e. None of these tasks is impacted by chemistry.

ANSWER: d

- 7. Chemistry that is essential to the development of pharmaceutical drugs and treatments is found within the field of \_\_\_\_\_.
  - a. physics
  - b. biology/medicine
  - c. environmental science
  - d. geology

ANSWER: b

8. Which picture BEST represents a mixture?



- a. a
- b. b
- c
- d. All of these pictures represent mixtures.

ANSWER: a

- 9. By definition, which of the following can be broken down into simpler substances?
  - a. gas
  - b. element
  - c. compound
  - d. liquid

ANSWER: c

- 10. By definition, which of the following CANNOT be broken down into simpler substances?
  - a. gas
  - b. element
  - c. compound
  - d. liquid

ANSWER: b

- 11. Which phase of matter has a definite volume but no definite shape?
  - a. plasma
  - b. solid
  - c. liquid

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d. gas		
ANSWER: c		
12. Which phase of matter has a defi	nite volume and shape?	
a. plasma		
b. solid		
c. liquid		
d. gas		
ANSWER: b		
13. A chemical change always involv	ves a change in the of matter.	
a. state		
b. composition		
c. volume		
d. temperature		
ANSWER: b		
14. A mixture of iron, salt, and sand separation	can be separated using a magnet, water	, a filter, and a hot plate. This
a. involves both chemical and ph	vsical changes	
b. involves only chemical change	•	
c. involves only physical change	•	
d. cannot be done with the mater	-	
ANSWER: c		
	scum) can be removed from your bath pound that more easily washes away.	
a. involves both chemical and ph	ysical changes	
b. involves only chemical change	es or processes	
c. involves only physical change	s or processes	
d. cannot be done with the mater	ials listed	
ANSWER: b		
16. Which picture BEST represents a	pure element?	
Standard A fail of the standard control and a fail of the standard control and the standard cont	anderson group and color (spaces action fails ) and 8 and	

a. a

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b. b		
c. c		
d. All of these pictures represent a	a pure element.	
ANSWER: b		
17. Which picture BEST represents a	mixture of pure elements?	
Sealing, 1, 1 of Company of Sealing Company of Seal		
a. a		
b. b		
c. c		
d. All of these pictures represent a	a mixture of pure elements.	
ANSWER: a		
18. Which picture BEST represents a	compound'?	
The second of th		
a. a		
b. b		
c. c		
d. All of these pictures represent a	a compound.	
ANSWER: c		
19. Which picture BEST represents a	homoganaous mivtura?	
which picture BLS1 represents a	mornogeneous mixture:	
a. a		
b. b		
c. c		
d. All of these pictures represent a	a homogeneous mixture.	
ANSWER: a		

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<ul><li>20. Which mixture is heterogeneous?</li><li>a. water from a creek or small river</li><li>b. purified water</li><li>c. fresh milk recently purchased fro</li><li>d. a cup of black coffee</li></ul>		
ANSWER: a		
21. A student accidently adds a chemical completely dissolves in the water. The pheating the solution until all of the water process of getting the original chemical a. involves both chemical and physical changes of the complete control of the water process of getting the original chemical and physical involves only chemical changes of the control of the chemical changes of the chemical nor physical nor physical ch	professor instructs the student that the revaporates, leaving behind the ori compound back  ical changes or processes r processes	hey can get the compound back by
22. Which weight has the GREATEST a. a 2-pound weight resting on the f b. a 2-pound weight on a shelf 3 fee c. a 2-pound weight on the roof of a d. a 2-pound weight at the top of a s  ANSWER: d	floor et above the ground a house	
23. Which example BEST describes sor a. a ball rolling off a table b. a carbonated 2-liter bottle of soda c. organizing your room d. riding a bicycle down a hill ANSWER: c		
24. Which example has the MOST kine a. a car driving at 80 mph b. a snail moving across the ground c. an airplane flying over Texas d. a 2-pound weight resting on the fanswer: c		
25. Energy harvested by plants from surthis, their increases.  a. potential energy  b. kinetic energy	nlight allows for the storage of gluc	ose in their cells. When plants do

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c. heat energy		
d. force		
ANSWER: a		
26. Which process is endothermic?		
a. burning wood in a fireplace		
b. heating water to convert it to steam		
c. burning gasoline in a combustion e	ngine	
d. digesting food		
ANSWER: b		
27. Liquid gasoline is heated and becomes causing a fire. The entire process is	•	pors are then ignited by a spark
a. first an exothermic change followed	•	
b. first an endothermic change follow	ed by an exothermic process	
c. only exothermic changes		
d. only endothermic changes		
ANSWER: b		
28. A highly reactive chemical compound stable than the initial reactants. During this reaction was	<u> </u>	<u> </u>
a. exothermic		
b. endothermic		
c. both exothermic and endothermic		
d. We are unable to tell from the infor	mation provided.	
ANSWER: a		
29. Of the choices given, the molecules of a. ice cube	water in a(n) have the MC	OST kinetic energy.
b. glass of cool water		
c. mug of hot but not boiling water		
d. pot of boiling water		
ANSWER: d		
30. A student adds a chemical compound the student notices the beaker getting cold beaker		<u>-</u>
a. is exothermic		
b. is endothermic		
c. is both exothermic and endothermic	C	
d. does not undergo a change in energ	y	

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ANSWER: b		
-	, scientists often develop a model that exple future. This type of model is BEST references	
a. theory		
b. scientific law		
c. hypothesis		
d. postulate		
ANSWER: a		
<u>=</u>	office complaining of head congestion and The nurse is making a concerning	<del>-</del> •
a. theory		
b. scientific law		
c. hypothesis		
d. postulate		
ANSWER: c		
33. Which statement is FALSE?		
a. Scientific laws describe obse	ervations that are true in widely varying o	circumstances.
b. Theories describe how or wl	ny something happens.	
c. Theories one day become so	ientific laws.	
d. Theories are supported by so	cientific evidence.	
ANSWER: c		
34. Which undergoes continued tes nature?	sting and refinement so that we know mor	re about how something happens in
a. theory		
b. scientific law		
c. hypothesis		
d. experiment		
ANSWER: a		
35. Which statement is TRUE?		
a. Scientific laws do not explain	n why something happens.	
b. An experiment is used to tes	at a scientific theory.	
c. Scientific laws can be chang		
d. Theories are rarely supporte	d by scientific evidence.	

ANSWER: a