

NATIONAL SCIENCE LEAGUE GRADE 3 and GRADE 4 CONTEST

1.	A	18.	D
2.	B	19.	B
3.	C	20.	В
4.	A	21.	A
5.	D	22.	В
6.	B	23.	A
7.	c_	24.	C
8.	D	25.	B
9.	A	26.	D
10.	D	27.	B
11.	D	28.	D
12.	В	29.	c
13.	D	30.	B
14.	A	31.	A
15.	c	32.	В
16.	A	33.	A
17.	C	34.	C
		35.	D

NATIONAL SCIENCE Grades 3 and 4

DIRECTIONS: On the answer sheet, write the letter of the choice that best answers or completes the question.					
1.	Which is true about all whales? A. They have lungs and breathe ai B. They have scales on their bodi C. They are herbivores. D. They are some of the smallest	es like fish රීං.			
2.	 What can green plants do that anima A. Only green plants can use oxygdioxide. B. Only green plants can use sunl food. 	en and make carbon Light to make their own			
	C. Only green plants can live in a basements.	dark places such as			
	D. Only green plants can move from water.	place to place to find			
3.	The fourth planet from the sun is _ A. Mercury C. Mars	B. Venus D. Saturn			
4.	 Which is a correct statement about A. Metamorphic rocks form when oth changed. B. Sedimentary rocks are made during C. Sandstone is a metamorphic rock D. Dinosaur fossils are usually form 	ner types of rocks are ing volcanic eruptions.			
5.	The gas that is used to fill birthd float in the air is A. oxygen C. carbon dioxide	ay balloons that B. nitrogen D. helium			
6.	Adult insects have a jointed exoskel A. two legs, and a body with two particles and a body with three C. four legs, and a body with two particles and a body with three D. eight legs, and a body with three	arts parts parts			
7.	Frogs, salamanders, and toads are A. reptiles C. amphibians	B. invertebrates D. warm-blooded			

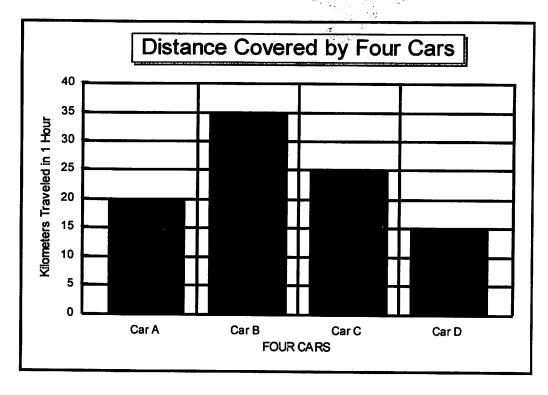
8.	What is made when 10 grams of sugar are poured into 2 liters of water? A. an element C. an atom D. a mixture
9.	
10.	Fahrenheit and Celsius are two different types of
	A. weight measurement scales B. volume measurement scales C. length measurement scales D. temperature measurement scales
11.	Which is an example of gravity at work? A. a positive electric pole and a negative electric pole attracting each other B. a north magnetic pole and a south magnetic pole attracting each other C. scotch tape holding two pieces of paper together D. the moon and the earth attracting each other
12.	In which part of a plant is the most food made? A. the roots C. the flowers D. the stems
13.	Which of these is the longest distance? A. 1 cm B. 1 dm C. 1 mm D. 1 km
14.	From which container will water evaporate the fastest? A. B.
	C. D.
15.	Food and oxygen are carried to your body cells by the
	A. digestive system C. circulatory system D. skeletal system

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16.	А. В. С.	a candle is hoxygen gas an nitrogen gas carbon dioxid hydrogen gas	d makes ca and makes e gas a nd	arbon õxyg make	dioxi en gas s oxyg	s jen g	ිරි as	•	,
17.	pred	h of these ictions? a telescope a barometer	is neede	d in	1	в.	o make a stetho a micros	scope	r
18.		hew has a drum s to have a dr							
	В. С.	get a larger hit the drum hit the drum get a smaller	more soft: harder	ly					
19.	Wate	r leaves ocear	s and lak	es ar	nd ent	ers	the air o	during	
		condensation freezing					evaporat melting	ion	
20.	What A. C.	kind of a sin a wheel and a an inclined p	xle	ne is		mmer B. D.	? a lever a pulley		
21.	Plas A. B. C. D.	tic can be use make insulati build a compa make permanen conduct heat	on for ele ss needle t magnets				ıickly	•	
22.	А. В.	yourself in t a rainbow in	he mirror the sky		ing			•	
23.	A.	af on a tree i a caterpillar a centipede		oitat		B. D.	a rabbit an owl	•	
24.	Whic A. C.	h of these fou dairy fruits and ve		oups			he least grain meats	protein	1?

USE THE FOLLOWING INFORMATION AND YOUR KNOWLEDGE OF SCIENCE TO ANSWER QUESTIONS 25 AND 26:

The bar graph below shows the number of kilometers traveled by four cars in one hour.



- 25. Which car covered the greatest distance in the one hour?
 - A. Car A

B. Car B

C. Car C

- D. Car D
- 26. Which car went the slowest during the one hour?
 - A. Car A

B. Car B

C. Car C

- D. Car D
- 27. Mechanical energy is changed to electrical energy by a
 - A. motor

B. generator

C. battery

- D. solar cell
- 28. On which part of the earth do we live and walk?
 - A. the inner core

B. the outer core

C. the mantle

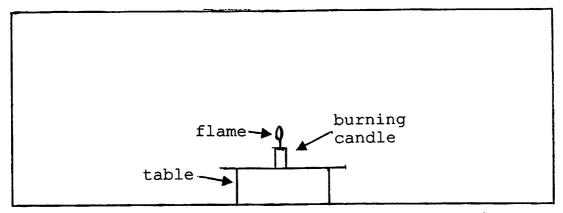
- D. the crust
- 29. Which of these would change the **least** if left outside in the rain for five years?
 - A. a copper penny

B. an iron nail

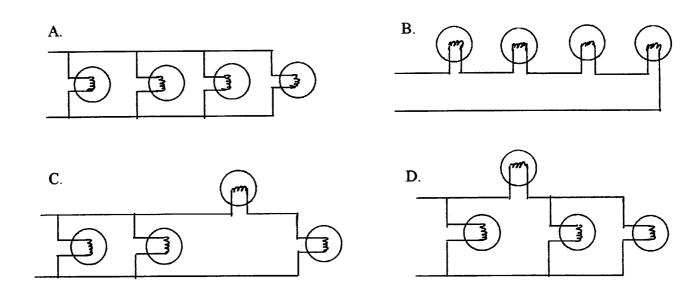
C. a glass bottle

D. a metal bicycle

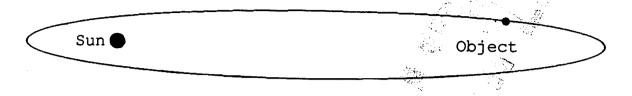
USE THE FOLLOWING DIAGRAM AND YOUR KNOWLEDGE OF SCIENCE TO ANSWER QUESTION 30:



- 30. In which direction will the air above the candle's flame be going?
 - A. to the left side
 - B. up toward the ceiling
 - C. to the right side
 - D. down toward the floor
- 31. Which is a true statement about cells?
 - A. All living things are made of cells.
 - B. Cells are large enough to be seen with your eye.
 - C. Many cells in your body do not have a nucleus.
 - D. The cells in plants are identical to the cells in animals.
- 32. In which circuit below will all of the bulbs go out if one of the bulbs suddenly stops working?



33. Which object has an orbit around the sun that looks like this?



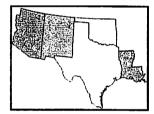
- A. a comet
- C. a star

- B a planet
- D. a moon

USE THE FOLLOWING DIAGRAM TO ANSWER QUESTIONS 34 AND 35:

The four diagrams below show groups of several states in the United States. The groups are labeled A, B, C, and D.





Α.

В.





C.

D.

- 34. In which group of states do the most earthquakes occur?
 - A. Group A

B. Group B

C. Group C

- D. Group D
- 35. Which group of states has the most hurricanes?
 - A. Group A

B. Group B

C. Group C

D. Group D