



Questions that stump our kids

4th grade

Life Science

Objective: The learner will know simple food chains.

Put the pictures in the right order to show a food chain.



- A. 3, 4, 1, 2 C. 2, 1, 4, 3
B. 1, 2, 3, 4 D. 4, 2, 1, 3

Physical Science

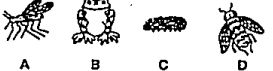
Objective: The learner will know the measurement of mass, length, and volume.

- A centimeter is about the size of the
A. length of your foot.
B. length of your arm.
C. tip of your finger.
D. width of your hand.

Life Science

Objective: The learner will know that the offspring resemble their parents.

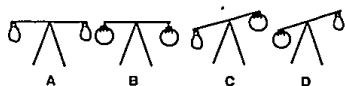
Which is the offspring of this animal?



Earth Science

Objective: The learner will know the composition of air.

Which balance shows that air has weight?



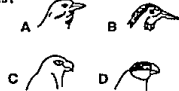
Answers: 4th Grade A. 3, 4, 1, 2 C. The tip of your finger B. The frog D.
7th Grade D. A. Add heat to the matter. A. 30 millimeters
10th Grade A. Nucleus B. a mixture C. There are more right-handed people than left-handed.

7th grade

Life Science

Objective: The learner will know that organisms have adaptation which enable them to survive.

Which picture is an example of a bird beak adapted to eating hard seeds?



Physical Science

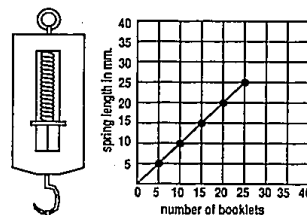
Objective: The learner will know that energy interacts with matter to produce changes.

- In order to change matter from a liquid to a gas, you must
A. add heat to the matter. C. freeze the matter.
B. remove heat from the matter. D. melt the matter.

Science Process

Objective: The learner will read information correctly from a graph.

A boy used a spring scale to weigh some identical booklets. He made this graph showing the spring length as more booklets were added. From the information give below, what will be the length of the spring with 30 booklets attached?



- A. 30 millimeters D. 40 millimeters
C. 35 millimeters D. 20 millimeters

10th grade

Life Science

Objective: The learner will know the differences between typical plant cells and animal cells.

The diagram below is of a typical plant cell. Use this diagram to answer the following questions.



The structure labeled with the number 4 is called the
A. nucleus. C. chromatin.
B. vacuole. D. cell wall.

Physical Science

Objective: The learner will know the difference between elements, compounds, and mixtures.

When salt water is dried out, salt remains in the dish. This is evidence that salt water is

- A. a molecule.
B. a mixture.
C. a compound.
D. an element.

Science Process

Objective: The learner will examine the data collected in any investigation and select the sets of data which appear to be related.

Use the following data to decide which statement is the best generalization.

SEX		Handedness		Totals
		Left-handed	Right-handed	
Boys		2	10	12
Girls		3	11	14
Totals		5	21	26

- A. Girls are more likely to be left-handed than boys.
B. Boys are more likely to be right-handed than girls.
C. There are more right-handed people than left-handed.
D. There are more left-handed girls than right-handed boys.

Ford offers a glimpse of 'real-life science'

By Pat Murphy
staff writer

Ford has a better idea to encourage careers in science.

While schools and educators may have the primary responsibility for encouraging science, the Ford Motor Co. offers Saturday morning classes to help students learn about their practical application.

Ford is by no means the only Detroit area company concerned. The Automotive Division of ITT, for example, offers two engineering scholarships for minority students at Oakland University.

Ford started its High School Science and Technology Program near



ly five years ago to encourage future engineers and scientists by demonstrating practical science at the company Engineering and Research complex in Dearborn.

Since the fall of 1984, hundreds of students have been involved in demonstrations on cryogenics, lasers, vacuum science, computer programming, atmospheric chemistry and

other topic areas, said program director John L. Bombard.

"The program has evolved gradually," he said. "In the first year (1984) there were 24 students attending the Saturday classes. Now we have more than 200."

THE PROGRAM ALSO includes a summer internship program for good students to get further involved in practical science, he said. Students are hired for six weeks to work with staff researchers involved in real projects.

"Ford hired 20 interns last summer paying them about \$650 for four weeks work, or about what they

Please turn to Page 5

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Hollianne A. Holdman of Westland works as a transmission electron microscope while at her part-time job at the Engineering and Research Complex at the Ford Motor Co.

STEVE JONES/staff photographer