

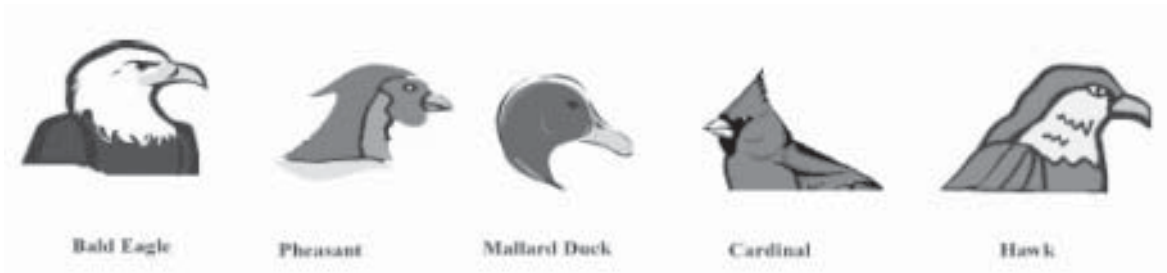
MEAP GRADE 5 SCIENCE

Use the information below to answer questions 5 through 7.



Bald eagles are often called birds of prey because they hunt other animals for food.

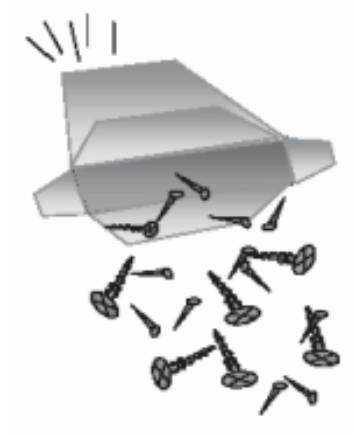
- 5 Bald eagles have many different traits that help them hunt for food. Which of the following is **NOT** a physical trait that helps these eagles hunt?
- A sharp claws
 - B color of legs
 - C good eyesight
 - D a sharp, hooked beak
- 6 Fish are the bald eagle's main food source. Which of the following **BEST** describes the relationship between the bald eagle and the fish?
- A The fish needs the eagle.
 - B They help each other.
 - C producer-consumer
 - D predator-prey



- 7 The birds shown above are all found in Michigan. Examine the beaks of these birds and compare them with the bald eagle. Which one of them can **MOST LIKELY** be classified as a bird of prey?
- A hawk
 - B cardinal
 - C pheasant
 - D mallard duck

Use the following information to answer questions 17 through 20.

Pablo helps his dad in the garage after school. One afternoon he accidentally dropped a box of screws and nails onto the floor. His dad grabbed a tool from the workbench and passed it over the spilled screws and nails. Most of them jumped up and stuck to the tool. He pulled them off and put them back in the box.



- 17 What caused the screws and nails to jump from the floor and stick to the tool that Pablo's dad was holding?
- A the force of friction
 - B gravitational pull
 - C a magnetic force
 - D a static charge

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- 18 The box contained different types of screws and nails. Which of them did Pablo have to pick up with his fingers after his dad finished?
- A iron nails
 - B iron screws
 - C steel screws
 - D aluminum nails
- 19 Pablo asked his dad why the tool didn't pick up all of the nails and screws. What was his dad's response?
- A Only screws have gravitational properties.
 - B All screws and nails have gravitational properties.
 - C Only sharp screws and nails have magnetic properties.
 - D Not all metals have magnetic properties.
- 20 Pablo takes the tool from his father's workbench. He takes turns holding it to the following objects.



- Divide the objects into two groups: those that will be attracted to the tool and those that will **NOT** be attracted to the tool.
- What property causes some objects to be attracted to the tool?

**ANSWER THIS ITEM IN YOUR ANSWER FOLDER.
NOTHING WRITTEN IN THE SPACE BELOW WILL BE SCORED.**

Use the following information to answer questions 29 through 32.

We use different sources of energy every day.



We use gasoline to run our cars.

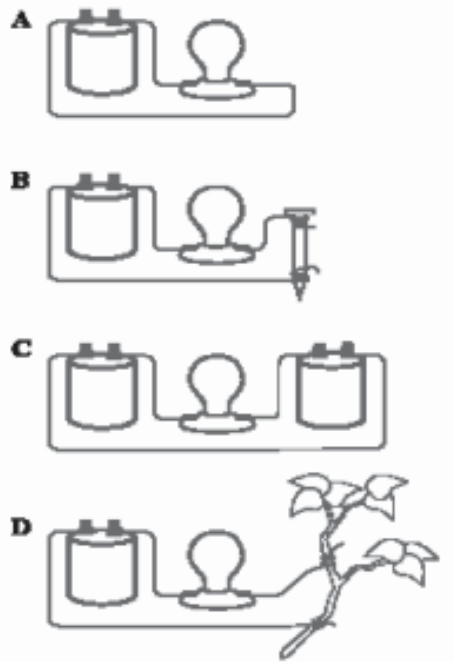


We use electricity to light our houses and wood-burning stoves to keep our houses warm.

29 School buses run on gasoline. Which of these is the main source of gasoline?

- A water from a well
- B coal from a mine
- C uranium from a mine
- D oil from a well

30 Which electric circuit will **NOT** cause the bulb to light?



31 Which of the following is an example of an electrical shock hazard?

- A an unplugged electrical cord
- B a dead battery from an old watch
- C a broken solar panel with sharp edges
- D an electrical cord with exposed wires

32 Zachary's son, Tony, is making a chart for science class. The chart will show various ways that individuals and communities use water. Name four different ways that people use water.

ANSWER THIS ITEM IN YOUR ANSWER FOLDER. NOTHING WRIT-TEN IN THE SPACE BELOW WILL BE SCORED.

38 Many earth materials are used to make other products. Which of the pairs below shows a correct progression from earth material to new product?

- A ore → glass
- B gravel → concrete
- C oil → water
- D salt → asphalt

MEAP KEY

HIGH SCHOOL KEY

<u>Item</u>	<u>Answer</u>	<u>Benchmark</u>
4	D	III.3.h.3
8	D	III.2.h.4
10	D	III.1.h.2
11	C	II.1.h.1
12	A	II.1.h.1
13	Constructed Response	I.1.h.2
18	B	IV.2.h.5
21	D	IV.4.h.4
22	D	IV.4.h.3
23	C	IV.4.h.4
24	Constructed Response	I.1.h.2
36	C	IV.2.h.4
37	C	IV.2.h.5
38	D	III.3.h.2
39	Constructed Response	II.1.h.1
40	C	I.1.h.4
41	D	V.3.h.3
42	C	V.3.h.2
43	Constructed Response	V.3.h.3
45	D	V.1.h.3

MIDDLE SCHOOL KEY

<u>Item</u>	<u>Answer</u>	<u>Benchmark</u>
4	A	IV.3.m.2
5	D	IV.4.m.4
13	C	III.3.m.1
24	B	III.2.m.1
25	B	II.1.m.1
26	D	III.4.m.1
27	Constructed Response	I.1.m.5
40	D	V.3.m.3
41	A	V.3.m.1
42	B	V.3.m.1
43	Constructed Response	I.1.m.5

ELEMENTARY SCHOOL KEY

<u>Item</u>	<u>Answer</u>	<u>Benchmark</u>
5	B	III.4.e.2
6	D	III.5.e.1
7	A	III.2.e.2
17	C	IV.3.e.3
18	D	IV.3.e.3
19	D	IV.3.e.3
20	Constructed Response	IV.1.e.1
29	D	V.1.e.5
30	D	IV.1.e.4 (this item was not scored on the 2003 test due to a printing error)
31	D	IV.1.e.5
32	Constructed Response	IV.2.e.3
38	B	V.1.e.5