Course: **ERD003**  Time: 90 min.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

**Out of 30 points**

**Student’s grade in %:**

**Final Test**

“Mars: Our Neighbors in Space”

**Be sure to use your own words when you answer each of the questions. Don’t copy from the text.**

**Main Idea:**

1. What is the main idea of paragraph 7? (1 point)

A biologist at NASA, Chris McKay, has suggested three theories about life on Mars.

1. Which supporting details in paragraph 7 support the main idea? (1 point)

First, second, and third theory.

**Looking for Details:**

1. When did space exploration begin? (1 point)

It began in the 1960s.

1. What were the names and dates of the successful missions to Mars? What was each of them able to obtain? (3 points)

Mars Pathfinder – 1996-sent images from Mars.

The Mars Reconnaissance Orbiter- Send a lot of information back to Earth.

The Phoenix Mars Lander- 2008 – returned enormous amount of data.

1. Which three theories about life on Mars were discussed in the article? (3 points)

1st. Life never developed.

2nd. Life arose on Mars just as it did on Earth and survived for at least a billion years.

3rd. Life arose and simple organisms developed.

Which one of them do you support? Why? (2 points)

Different answers are possible.

1. According to the article, what is the similarity between Mars and Earth? (1 point)

Marth and Earth began their life under similar conditions.

1. According to the article, what are the differences between Mars and Earth? (2 points)

Earth developed an atmosphere that is rich in oxygen, and an ozone layer. Mars lost its thick atmosphere of carbon dioxide. Ultraviolet radiation intensifies.

1. According to the article, what do scientists want to learn in the future? (1 point)

They think that if life had existed they may find records of it under sand, or in the ice. If not, they want to know how Earth is different from Mars, why life developed on our planet and not on Mars and they want to know whether we are alone in the universe.

**Making Inferences/ Opinion Questions:**

1. “To date, none of the Mars missions has discovered any sure signs of past or present life. Nonetheless, scientists worldwide are not discouraged.” Why do you think scientists still believe there might be life on Mars? (2 points)

Answers may vary.

1. Read lines 27 and 28. “During the first billion years, liquid water—in contrast to ice—was abundant on the surface of Mars. “What form does the water on Mars have today? (1 point)

Ice

1. Based on the information in the article, what do you think the author of this article thinks about sending more spacecraft to Mars? Explain your answer. (2 points)

Good idea

1. Why do you think many counties sent unmanned spacecraft to Mars to find out everything they could about their nearest planet? (2 points)

As it is risky.

1. Do you think it is important for scientists to study other places in space? Explain your answer. (2 points)

Answers may vary.

**Vocabulary Questions:**

14. What does *“***evidence”** mean? (1 point)

Proof, confirmation, verification

15. What does **assumption** mean? (1 point)

Guess