

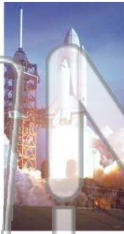


Name _____ Class _____ Date _____

1

One of the basic laws of physics behind rocket science is **Newton's third law of motion**, which states that _____.

- A every explosion causes forward motion
- B to escape the pull of gravity, an object must be aerodynamic
- C for every action there is an equal and opposite reaction
- D fire, when hot enough, pushes away from itself



2

Rocket fuel is burned inside the rocket in a **combustion chamber**. The force that is exerted out of the rocket's exhaust nozzle equals the force of the gas pushing at the top of the combustion chamber.

This force, which ultimately moves the rocket, is called _____.

- A pressure
- B thrust
- C combustion
- D gravity

3

In order for a rocket to leave the **launch pad**, the **thrust** must _____.



4

The **speed** and direction a rocket needs to completely escape earth's **gravitational pull** is called _____.

5



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7

planets and moons to **study** their features, compositions, and movements?

- A a lunar module
- B a satellite
- C a space probe
- D a space shuttle



mission sent two movable robotic rovers to study the surface of Mars. **Mars** is of particular interest because _____.

- A it is very similar to Earth
- B it may have supported life in the past
- C it may support some simple form of life presently
- D all of the above



9

The Pioneer, Voyager, and Galileo missions were **unique** because the **purpose** of these space probes was to study _____.

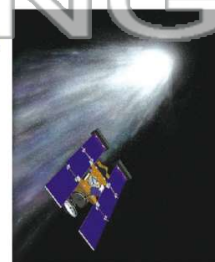
- A Venus and the Sun
- B asteroids and Mars
- C the outer portions of the solar system
- D the effects of weightlessness on scientific experiments



10

Stardust was the first space probe designed to study _____.

- A Jupiter
- B Venus
- C the asteroid belt
- D a comet






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