



Name: \_\_\_\_\_ #: \_\_\_\_\_

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

Section: \_\_\_\_\_ HR: \_\_\_\_\_

## Chapter 1 Section 3 Study Guide: Rockets & Satellites

### Discover: How Do Rockets Work?

#### Think It Over

**Observing** In which direction does the air rush out? In which direction does the balloon go? Does the balloon need to push against something in order to move? Explain your answer.

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#### How Rockets Work

Newton's third law of motion (physics) states that for \_\_\_\_\_

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How does this law apply to the balloon in the "Discover" activity?

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#### Guide For Reading

How do rockets travel in space?

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#### Multistage Rockets

What were two disadvantages of the first rockets, which led the development of the multistage rocket?

- \_\_\_\_\_
- \_\_\_\_\_

The Saturn V (five) rocket was developed in 1960's. How do these multistage rockets work?

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## Artificial Satellites

### Key Term

satellite: \_\_\_\_\_

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### Checkpoint (page 37)

What is a geosynchronous orbit?

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### Guide For Reading

What are satellites and space stations used for?

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## Space Shuttles

The reusable space shuttle was developed in the late \_\_\_\_\_.

What does the acronym NASA stand for?

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### Figure 16 **Inferring**

What is one advantage of a reusable rocket?

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