## ASSESSMENT: Birth of the Space Shuttle

## **Directions:**

After reading *Birth of the Space Shuttle*, answer each question below. Be sure to answer in complete sentences and summarize using your own words.

- 1. Why did NASA believe the creation of a reusable launch vehicle was so important?
- 2. What was the project cost of the first reusable spacecraft designed in 1971?
- **3.** Based on a new design, the projected cost was roughly \$5 billion dollars less than the 1971 estimates. What made this design so extraordinary?
- 4. What parts of this new design were to be reused, and what parts were expendable (not designed to be used again)?
- 5. What did Congress call the project to create a new reusable launch vehicle?
- 6. What year did the first orbiter come out of assembly, and what was its name?
- 7. Name the one major system not tested in Enterprise.
- 8. Why is the date April 12, 1981, important to NASA?

## **Exploring Further**

- 1. The Space Shuttle Columbia had a 15' X 60' cargo bay. What was the cargo bay's area?
- 2. STS1 launched April 12, 1981, at 7:00:03 a.m. EST. Its duration was 2 days, 6 hours, 20 minutes, and 53 seconds. When did it land (date, hour, seconds, and a.m. or p.m.)? Show your work.
- 3. On the back of this sheet, draw a timeline based on the important dates mentioned in this article.

