Janet Guthrie



Race Car Driver and Physicist _

Why would a well-educated young woman choose a career as a mechanic and race car driver? Janet Guthrie's family and friends would never understand why a woman who had a wonderful job as a physicist in the aerospace department of Republic Aviation would want to throw away her life on racing cars.

Janet's love for adventure led her to the racing world. She sold everything she owned, including her XK-120 Jaguar. Her goal was to build her own race car from scratch. She bought a brand new Toyota and promptly tore it down. It took her a year to rebuild it so that it would be able to compete. Since she had no steady job, life was a struggle. She had to abandon her apartment for a single room in the back of a store. Only odd jobs kept her alive and paid for the parts she needed for her car. Finally, worn out and virtually penniless, Janet took a job as a technical editor for Sperry Rand.

Although she could find no racing sponsor, she did not give up. She kept making appointments and attempting to sell the world on the idea of a female race car driver, but sponsors thought a woman was too much of a risk. Finally, someone took a chance and asked her to race. She finished that race and continued to win in club races and some professional ones. At last Janet set her sights on a race that would test her endurance: the Indianapolis 500.

In 1976 Janet attempted to qualify for the Indy 500, but car problems eliminated her. But that same year she did become the first woman to race for the National Association for Stock Car Auto Races. In 1977 she became the first woman to race in the Indy 500; the following year she placed ninth in her Texaco-sponsored #51 racer at Indianapolis.

Janet Guthrie is a pioneer. The thrill of racing caused her to decide that a life driving off into the sunset was better than sitting at a desk. Her spirit of adventure paid off not only for her but also for every other woman whose career leads her to the speedway.

Suggested Activities

1. Discussion Questions

- *Knowledge:* What kinds of jobs did Janet do before and while she worked toward becoming a race car driver?
- *Creative Thinking:* If you wanted to become a race car driver, how would you find someone to sponsor you?
- Application: Draw your conception of the fastest race car of the future.
- *Analysis:* Why was it so difficult for Janet to find a sponsor and become a professional race car driver?
- *Synthesis:* Did Janet's experiences before her professional career as race car driver help her in any way?
- Evaluation: Do you think that Janet was happy with her life as a race car driver?
- Affective: Do you think that racing cars is hazardous? Do you think it is more hazardous for women than for men?

2. Skills Focus

- Language and Communication Skills: Write a letter to a fictional company. Attempt to convince them to support you and your race car for the Indy 500.
- *Independent Study Skills:* What are the names of other well-known races? What kind of education is needed to become a mechanic today? Why are mechanics in short supply? Why do they make so much money today?
- *Manipulative Skills:* Draw a flag that would represent you as you drive your car down the speedway somewhere in the world. Explain each symbol below your drawing.

3. Science

Antifreeze Experiment: Most car engines use antifreeze to keep the water in the radiator from freezing. How does antifreeze work? Try placing a small container of water in the freezer along with an equal amount of alcohol in a similar container. Which freezes first? Why?





4. Research and Debate

Conservation of Fuel: Many people believe that car races should be banned because the drivers use so much fuel. Have students divide into two debate teams. One team should represent the race car drivers and the other represent the fuel conservationists. Have students research and prepare a debate on this most controversial issue.

Recommended Reading

Teacher Reference

Olney, Ross. Janet Guthrie. Harvey House, 1978.

Things That Go! How to Make Toy Boats, Cars, and Planes. Troll, 1987.

Student Reading

Barrett, N.S. Racing Cars. Watts, 1984.

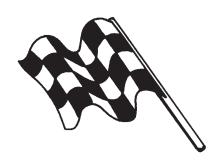
Graham, Ian. Racing Cars. Gloucester Press, 1990.

| Janet Guthr | e | Women in Spo | rts |
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Daredevils

Many women—like Janet Guthrie—have loved the exhilaration of speed. Many have seen the challenge of testing new machines and new means of transportation and have accepted—and even welcomed—it. Some of these women and their feats are described below. Their names, which are in all capitals, are scrambled. You must unscramble them to learn more about women and travel, speed, and transportation. (A list of their names at the bottom of the page may help you with your task. You may use the name more than once.)

| 1. | Her claim to fame was not envied by many because MEDAAM CHRDAANBL was the first victim of the dangerous profession of aviation when she burned to death in her balloon on July 8, 1819. |
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| 2. | SSRBAONE ED AL CHORE was awarded the 36th Flying Certificate in 1910 and was killed in 1919. She was the first woman to die in an aircraft accident. |
| 3. | The first woman to negotiate a landing using instruments alone when visibility was nil was CJQEEUNIAL OACCHNR. |
| 4. | The first woman to cross the sound barrier was CJQUEEALNI RHCCNOA. |
| 5. | ENNA RGHEBDLIN was the wireless radio operator for Charles Lindbergh on many occasions. |
| 6. | LEMAAI TRHAARE was the first woman to fly across the Atlantic. |
| 7. | AANNH SCHRTIE set a record for women gliders by doing ninety-six miles in a straight run. |



Amelia Earhart

Madame Blanchard

Anne Lindbergh

Jacqueline Cochran

Baroness de la Roche

Hanna Reitsch



Answer Key

| Page 7 | Page 48 | Page | 61 | .02 | .03 | Richard Nixo |
|-------------------------|------------------------|---------|---------------------|--------------|-----------|-----------------|
| 1. Icarus | 1. allergy | 3 | Step 4 | .87 | .80 | Gerald Ford |
| 2. ornithopters | 2. x-ray | 1 | Step 1 | .82 | .32 | Jimmy Carter |
| 3. hot air balloons | 3. surgeon | 4 | Step 6 | Sum 1.90 | Sum 1.27 | Ronald Reaga |
| 4. dirgible | 4. gynecologist | 2 | Step 5 | Backstroke | Butterfly | George Bush |
| 5. gliders | 5. physical therapist | 6 | Step 3 | .20 | .70 | William Clin |
| 6. Wright Brothers | 6. disease | 5 | Step 2 | .21 | .02 | Page 96 |
| 7. French Bleriot | 7. podiatrist | Door | 64 | .06 | .44 | Across |
| Dogo 26 | 8. medicine | Page | | .88 | .15 | 1. ambition |
| Page 26 | 9. endocrinology | 1. box | | .85 | .15 | 6. majored |
| 6. 1940—Winter | 10. pediatrics | 2. lens | | Sum 2.20 | Sum 1.46 | 7. legislative |
| 3. 1935—Prairie | 11. neurological | | v finder | | | 8. neuromusc |
| 8. 1943—Happy | 12. pathology | | ter release | Page 80 | | Down |
| 1. 1932—Big | 13. cardio-pulmonary | | h socket | 1. Madame 1 | Blanchard | 2. Texas |
| 5. 1939—Shores | 14. obstetrics | | ter release | 2. Baroness | | President p |
| 2. 1933—Farmer | 15. anesthesiology | | v finder | Jacquelin | | 4. orator |
| 4. 1937—Creek | laser-specialist | c. box | 1 . | 4. Jacquelin | | 5. university |
| 7. 1941—Little | Daga 51 | | n socket | 5. Anne Lin | | 5. university |
| Little House in the Big | Page 51 | e. lens | | 6. Amelia E | • | Page 99 |
| Woods-1932 | 1. eyepiece | Page | 67 | 7. Hanna Re | | |
| Farmer Boy–1933 | 2. tube | Н | | 7. Haima Ke | atsen | Sea of Ga |
| Little House on the | 3. arm | L | | Page 83 | | ~ |
| Prairie–1935 | 4. revolving nosepiece | M | | Across | | Haifa |
| On the Banks of Plum | 5. low power lens | I | | 1. serve | | _ |
| Creek-1937 | 6. high power lens | A | | 4. overhead | smash | Caesarea |
| By the Shores of Silver | 7. stage | A | | 6. fault | Je | erusalem |
| Lake-1939 | 8. stage clips | A | | 8. let | Tel- | Aviv |
| The Long Winter–1940 | 9. inclination joint | Mahal | ia | 9. set | | River |
| Little Town of the | 10. mirror | D | 70 | Down | Jordan | |
| Prairie–1941 | 11. mirror fork | Page | | 2. volley | , | |
| Those Happy Golden | 12. base | | ht Eyes | 3. footfault | / | |
| Years-1943 | Page 54 | | or Little Rich Girl | 5. deuce | / | \ |
| Page 38 | 1. octopus | | pecca of | 7. lob | / | \ Israel |
| Across | 2. goby | • | brook Farm | 8. love | Mediterra | anean |
| 3. camomile | 3. anglerfish | | e Miss Broadway | Page 90 | Sea | \ |
| 5. implored | 4. archerfish | | Bluebird | rage 90 | | \ (|
| 7. currant | 5. blowfish | | Around the | 1. 1 | 8. 8 | \ |
| 8. gooseberry | 6. sawfish | Corne | | 2.0 | 0.2 | \ |
| Down | 7. lantern fish | | Little Colonel | 2. 9 | 9. 3 | \vee |
| 1. exert | 8. croaker | | Littlest Rebel | 3. 2 | 10. 11 | |
| 2. sieve | 9. salmon | 6 Dim | | 4. 6 | 11. 10 | Page 106 |
| 4. mischief | 10. sea horse | | waway | 4. 0 | 11. 10 | 1. justices |
| 6. parsley | D 50 | 5 Curl | | 5. 4 | 12. 12 | 2. chief |
| - • | Page 58 | 7 Heia | 'i | | | 3 president |

Page 45

1. Ellipse

2. Parabola

3. Hyperbole 4. Circle



Page 58

Page 74

1. birdie 5. bogey 2. hole-in-one 6. eagle 3. fairway 7. green

4. handicap 8. woods

9. irons

| Page 77 | |
|-----------|-----------|
| Freestyle | Breastrok |
| .10 | .01 |
| .09 | .11 |

| 4. 6 | 11. 10 |
|------|--------|
| 5. 4 | 12. 12 |
| 6. 5 | 13. 14 |

7.7 14. 13 Social Security

Page 93 Harry Truman

Franklin Roosevelt Dwight Eisenhower John Kennedy Lyndon Johnson

Nixon Ford Carter Reagan Bush Clinton

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tion red muscular

dent pro tem

99



3. president 4. federal 5. constitution

6. foreign 7. lower

8. appeals 9. appeal 10. administrative

11. district 12. one

13. trial 14. cases