



Lesson 4 - Hot Air Balloon Flight and Literary Connections

Subjects: Language Arts, Physical Science

Learner Outcomes:

1. Students will become aware that some fiction books contain nonfiction information.
2. Students will list terms from fiction stories which may help answer the question "How do hot air balloons fly?"
3. Students will be able to write a short paragraph about how a hot air balloon flies using at least five of the terms identified in the stories read and the Power Point presentation.

Duration of Lesson: Two 40-minute class periods

Materials: The Great Town and Country Bicycle Balloon Chase by Barbara Douglass,

Hot-Air Henry by Mary Calhoun *

The Big Balloon Race by Eleanor Coerr *

Balloon Festival 2001 Power Point Presentation (provided on disc)

*possibly found in your Media Center

Teacher Notes:

- **Bookmark Internet sites**

Procedures:

- Students will read the three fiction books and list terms which might answer the question "How do hot air balloons fly?".
- Teacher will list on the board the terms identified by the students.
- Beside each term, the teacher will write what the student surmises as the meaning of the term or how it works.
- Students will discuss how a hot air balloon flies.
- Students will view the "How Hot Air Balloons Fly" [Power Point Presentation](#).
- Students will use the computer to write a short paragraph to summarize how a hot air balloon flies using at least five of the terms identified in the stories read and the Power Point presentation.

Evaluation/Assessment: Student observation, Class observation, Completion of paragraph summary.



West Virginia IGO's:

Language Arts: RLA 3.1.3, 3.1.4, 3.1.7, 3.1.10, 3.1.11, 3.1.14, 3.2.3, 3.2.9, 3.2.10, 3.2.12

Science: SC 3.4.5, 3.4.7

Technology: TEC 3.1.2, 3.3.1

References:

- [Taylor County Public Library](#)
- Launch a High Flying Hot Air Balloon: Smithsonian Institution, c1998
- Power Point photographs, 2001 Mountaineer Balloon Festival
- Photography by Sandra Bolyard
- [Fly me to the moon: Hot Air Ballooning](#)
- [Hot air balloon simulation](#)

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Ballooning Terms:

- wind
- aeronaut
- basket
- gondola
- mouth
- fan/gasoline-powered fan
- burner
- fire/flames
- warm air
- frame
- propane tanks
- burner cord
- whooshing roar
- cave
- air-spilling cord
- rip cord
- dragline
- lighter-than-air hydrogen gas
- toggles