

Lesson 9

1. The air inside a hot-air balloon is heated. This makes it less _____ than the surrounding cooler air and causes the balloon to rise.
2. In 1783 a large crowd assembled to watch the Montgolfier brothers' hot-air balloon. Among the _____ were members of the French royal family.
3. The Montgolfier brothers' hot-air balloon reached a height of 1,500 feet. Its flight _____ after it had been in the air for eight minutes.
4. Unlike a kite, the Montgolfier brothers' hot-air balloon was not attached to the ground. People watched in amazement as the balloon _____ to a great height.
5. A sheep, a duck, and a rooster were the first airborne creatures. Two months later, the first human flight in a balloon took place, a truly _____ act.
6. By 1900, there was great competition to build a successful heavier-than-air machine. The first to _____ this goal would be famous.
7. The Wright brothers made and repaired bicycles for a living. They _____ their work on bicycles to concentrate on building a heavier-than-air machine.
8. Some early aircraft had as many as six wings, stacked above each other. Such airplanes were too _____ to ever get off the ground.
9. Modern aircraft have rigid wings. Early attempts to _____ the flapping of birds' wings ended in failure.
10. The first aircraft designers had a problem in trying to reduce the plane's weight. The lighter the aircraft, the more _____ it was.
11. Steam engines are very heavy. It was _____ to think they could ever be used to power aircraft.
12. The Wright brothers rejected the concept of steam-powered flight. After _____ with different designs, they developed a lightweight gasoline engine.
13. The first flying machine took to the air in 1903. Only a few people were present to see the plane _____ to a height of a few feet and stay in the air for twelve seconds.
14. The future _____ of aircraft may not have been obvious to everyone. They might have been surprised to hear that one day aircraft would be flown around the world and even into space.
15. A visit to the National Air and Space Museum is a must in Washington, D.C. There you can see the plane that _____ across the field at Kitty Hawk and then took off.