Name:

Date:

Wright Brothers’ Flying Machine

**Directions:** Go to <https://www.youtube.com/watch?v=qo0kpCU03-U>. Answer the following questions as you watch the film.

1. Why does the pilot perform a walk-around of the aircraft?
2. What were some of the first Wright brothers’ aircrafts?
3. Where did the Wright brothers’ first start experimenting with manned flight?
4. Why did the Wright brothers’ choose Kittyhawk?
5. What are the three parts that all airplanes need to effectively fly?
6. How does a wing generate lift?
7. Why was the wind tunnel and Wright balance important?
8. How did the Wright brothers apply their understanding of bicycles to their airplanes?
9. What is ‘wing warping’?
10. What is the connection between propellers and wings?
11. Who was Dr. Samuel Langley?
12. How far was the first flight of the Wright brothers Kittyhawk flyer?
13. How did the Wright brothers’ lives change after the success of their flying machines?
14. Why is the Wright Model B Flyer significant?
15. What is the benefit of the Wright brothers’ wing design?
16. Why did they cast their engine from aluminum?
17. Why did they coat the wooden parts in varnish?
18. What was it that drew crowds to the expos?

	1. Why was this a problem?
19. What happened on the first flight of the reconstructed Model B flyer?
20. What did the first flight teach the team building the Model B?