Part 4 - Tornado Simulator

Open up the tornado simulator linked here. Before you play with the simulator, read the section called “What do these measurements mean?” and answer the questions below.

1. Define the following terms: funnel width, pressure difference, and rotating speed.

Funnel Width	
Pressure Difference	
Rotating Speed	

2. With the funnel width at 560 yards, the pressure difference at 0.6 and the rotating speed at 100 mph, press go on the simulation. In the table below, identify what happens to the trailer, house, car, sign, and tree.

Object	What happened during the tornado?
Trailer	
Tree	
Car	
House	
Sign	

3. What EF scale did the tornado above reach?

4. Keeping the funnel width at 560 yards, increase the pressure difference to 1 instead of 0.6inHg. What happens to the rotating speed as this happens?

5. Press go on the simulation. In the table below, identify what happens to the trailer, house, car, sign, and tree.

Object	What Happened During Tornado?
Trailer	
Tree	
Car	
House	
Sign	

6. What EF scale did the tornado above reach?

7. How does increasing the difference in pressure affect the force of a tornado?