Air, Aerodynamics, and Flight Checklist

Essential Question: How do things fly in the air?



Checklist

Use this checklist to track your activities and assessments for Air, Aerodynamics, and Flight Unit as you complete them.

What is air?

• What is air made of?

	□ Discover: Up in the Air□ Observe: Proof in the Air□ Exit Pass
•	What are the properties of air?
	 Explore: Is Air Really There? Explore: Under Pressure Discover: Air as a Fluid Exit Pass Self-Assessment: What is air? Assessment 1: Alien Air
What forces are involved in flight?	
•	How do flying devices and living things counter act gravity?
	Observe: Defying GravityExit Pass
•	How does air movement across a surface result in lift?
	 □ Observe: Air in Motion □ Observe: Bernoulli Basics □ Explore: Bernoulli Brain Teasers □ Exit Pass
•	How can drag be reduced?
	Explore: What is Drag?Explore: Parachute PlungeExit Pass

What means of propulsion are used in aircraft?	
 Observe: Types of Propulsion Explore: Propellers in Action Explore: Propulsion Pop! Exit Pass Self-Assessment: What are the forces involved in flight? Assessment 2: Forces in Flight 	
What parts are needed for things to fly?	
How does a hot-air balloon fly?	
 Observe: Lighter Than Air Observe: Fly Your Own Hot Air Balloon Exit Pass 	
What adaptations enable birds and insects to fly?	
 Observe: Airplanes vs. Birds Observe: Build a Bird Exit Pass 	
How do the parts of an aircraft stabilize and control its flight?	
 Observe: Parts and Movements of an Airplane Observe: Airfoil Design Exit Pass Self-Assessment: What parts are needed for things to fly? Assessment 3: Comparing Things that Fly Final Assessment: Glider Design 	
If you have	
• not submitted the assessments, please do so now.	
If you have completed all activities, you can go on to another unit of your choice.	
Congratulations!	