

# Comprehensive Materials List for *Airplanes and the Atmosphere*



## Material (and amount needed)

**Lesson(s) needed**  
(lesson numbers in parentheses  
means the material is optional)

alka-seltzer tablets (eight per group per class)	18
aluminum foil	2
baby food jars (2 identical)	12
baking soda (1 Tbs)	2
balloons (2 per group per class)	2
beakers (250mL)	2, 7
beakers (600mL)	16, 18
books (as supports)	16
candle (tea light)	2, (8)
cardboard (1 2" x 12" piece)	11
chart paper	1, 16, 22, 27
clamp lamp sockets with extension cords (1 per group)	7, 16, 18
clear plastic pan (1 per group)	8
colored pencils	(7),
computer with projector	4, 12, 13, 21, (24)
computers with internet access for students	(3), 9, (12), (19), (21), (25), 26
DVD player	23
eye dropper	8
flashlights	16
food coloring - (any color in a screw top bottle for lesson 2) (blue and red for lesson 12)	8, 12
gas convection apparatus	(8)
global dimming video	23
globe	10
graph paper	16, 22
heat lamps	7
hot plate	3, 7, (8)
incense stick, splint, or other smoke source	8
index card	12
large beaker	7
light bulbs/heat lamps (1 per group)	16, 18
M&M's (1 cup per group per class)	11
markers	1, 16, 22, 27
matches	2, (8)
measuring cups (or beaker) (2)	12
oven mitts for handling hot light bulbs	7, 16, 18
paper (scrap is fine)	10
paper towels	8, 11, 12
plastic cups - large, translucent (4 per group)	11

plastic wrap	18
ringstands (1 per group)	7, 16, 18
rubber bands (1 per group)	11
sand	7, 16
scotch tape	16, 18
shallow pans 1x4x8 (2 per group)	3, 7
soil	7, 16
spoon	12
sticks - either dowels or rulers (1 per group)	2
stopwatch (1 per group)	7, 16, 18
string	2, 11
supports for plastic pan (5 per pan)	8
test tube stoppers w/ holes (2 per group)	7
test tubes (2 per group)	7
thermometers (6 per group)	7, 11, 16, 18
tongs	3
transparency	10
vinegar (50 mL)	2
water	3, 7, 8, 12, 18

