

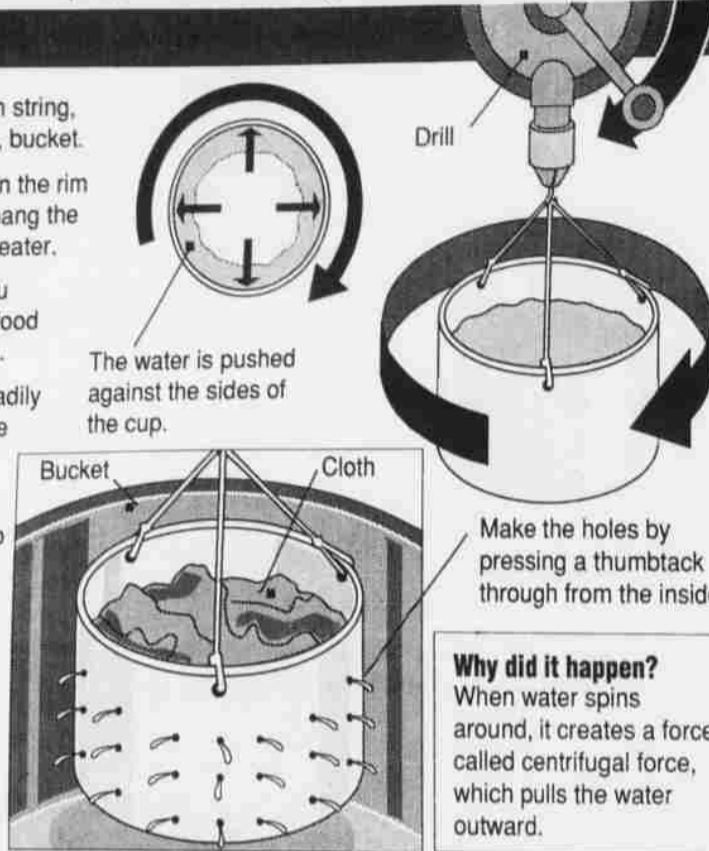
### Try this: Spin dryer

This experiment demonstrates that when an object spins, it creates centrifugal force, which pulls it outward.

#### Make a spin dryer

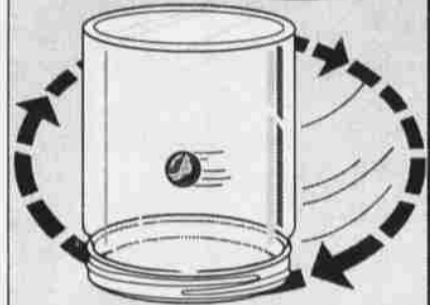
**You'll need:** A hand drill or egg beater, thin string, yogurt cup, water, food coloring, thumbtack, bucket.

- 1 Make three evenly spaced small holes in the rim of the yogurt cup and use the string to hang the cup from the turning part of the drill or beater.
- 2 Put about 1 inch of water in the cup. You might like to color the water with a little food coloring so you can watch it more easily.
- 3 Turn the handle of the drill or beater steadily so the cup spins around. If you watch the water, you will see it pulled against the sides of the cup by centrifugal force.
- 4 Make holes in the sides of the yogurt cup and put a very wet piece of cloth inside. Spin the cup inside a bucket or bowl. You will see that the water in the cloth is thrown out of the cup by centrifugal force. This is just how a real spin dryer works. The tub is full of holes and the water in the clothes is pushed out of the holes by centrifugal force as a motor makes the tub spin around.



#### Lift a marble without touching it

Place a marble on a table and cover it with a glass jar.



Spin the jar. This will start the marble spinning, too. Eventually it will be pressed against the sides of the jar by centrifugal force. The mouth of the jar is narrower than the sides, so the marble cannot fly out if you lift the jar as long as you keep it spinning.

**Why did it happen?** When water spins around, it creates a force called centrifugal force, which pulls the water outward.

SOURCE: 175 Science Experiments to Amuse and Amaze Your Friends, Random House

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## Ways airliners might be made safer

These new safety features are being discussed as ways of reducing airliner accident deaths and injuries.

**Seats:** Now built to take force of 9 Gs (nine times force of gravity); new planes must have 16-G seats; FAA still pending on retrofitting existing planes with 16-G seats

**Rear-facing seats:** Used in some military planes; rear-facing passengers suffer less injury in a crash; no government action pending

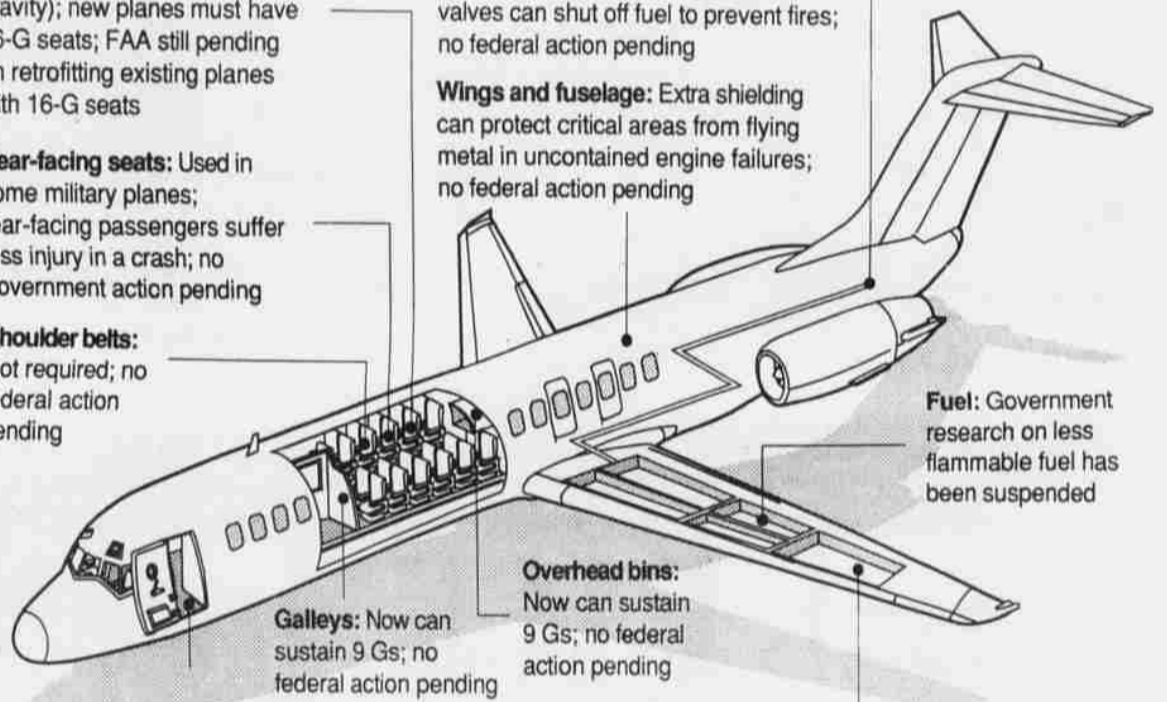
**Shoulder belts:** Not required; no federal action pending

**Cabin materials:** FAA rules require less flammable materials in new planes; older planes must be retrofitted when refurbished

**G forces:** A 200-lb. person falling at 9 Gs lands with the force of an 1,800-lb. object

**Fuel system:** Fuel lines can be made to break in certain places in an accident; valves can shut off fuel to prevent fires; no federal action pending

**Wings and fuselage:** Extra shielding can protect critical areas from flying metal in uncontained engine failures; no federal action pending



**Fuel:** Government research on less flammable fuel has been suspended

**Overhead bins:** Now can sustain 9 Gs; no federal action pending

**Galleys:** Now can sustain 9 Gs; no federal action pending

**Fuel tanks:** Some experts say tanks could be made self-sealing, as they were on World War II aircraft; inert gases pumped into empty part of tank can reduce explosive fumes; vapors can be vented better; no federal action pending

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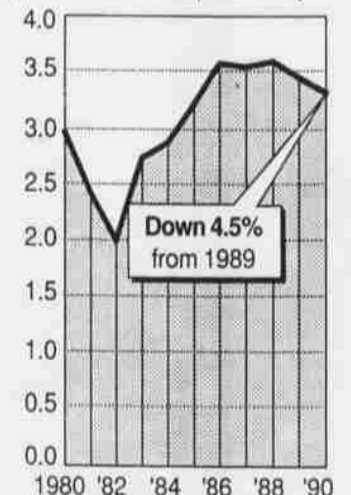
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SOURCE: Chicago Tribune, National Association of Realtors

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