Student experiment (1st - 4th grade)	Weighing the air	Time: max. 15 min.
Safety:		
Instruments:	 two balloons one long, thin, wooden splint a ruler a pencil tape pieces of string a rubber ring two thumbtacks 	
Experiment:	 Find the center of the wooden splint using a ruler and mark the spot. Push a thumbtack into the wood on both sides of this mark. Tie a piece of string to the center of the rubber band. Place one loop around each of the thumbtacks. Carefully check to make sure that the splint is in perfect balance. Tape an empty balloon to each end of the wooden splint and 	

Advice for the teacher:

The splint will sink on the side where the blown-up balloon is attached.

reattach it to its place on the splint. What happens?

This experiment should make it explicitly clear that air does indeed have mass.

Then remove one balloon and blow it up. Knot the balloon shut and

Tip:

Do not use splints that are extremely thin or light.

recheck the balance again.

