

Air properties

Air is matter.	Air is a gas.	Air is a particular gas.	Other gases exist.
It has the general properties of matter.	It has all the properties of the gaseous state.	It has specific properties that no other gas has.	They have specific properties that air does not have.
<ul style="list-style-type: none"> • It can undergo a phase transition. (liquid air). Ⓜ It moves. Ⓜ It is conserved. Ⓜ It has a mass. • It expands. • Its density depends on temperature. • It interacts with other matters. It exerts forces on objects. 	<ul style="list-style-type: none"> Ⓜ It has no shape of its own. • It occupies the entire volume available to it. Ⓜ It is compressible, expandable, elastic. • It is characterized by its pressure, volume and temperature. 	<ul style="list-style-type: none"> • It's a mixture of gases. • It supports combustions. Ⓜ It supports respiration. • It's slightly soluble in water. • It's a thermal, electric and acoustic insulator. Ⓜ It's colourless, odourless. 	<ul style="list-style-type: none"> • Carbon dioxide does not support combustion or respiration. It is denser than air. • Butane has a smell, is combustible, explosive when mixed with air. o Nitrogen dioxide, iodine vapour are coloured gases.
<p>Legend: the different properties were identified as follows.</p> <ul style="list-style-type: none"> Ⓜ Can be a structured work as part of a school cycle. • May be mentioned at school (including at the Cycle 3 level) while studying another subject. o Does not seem relevant at a primary school level. More suited to college. 			