

# The atmosphere: atmospheric pressure

EST

PAGES 222-225

Complete this concept review handout and keep it as a record of what you have learned.

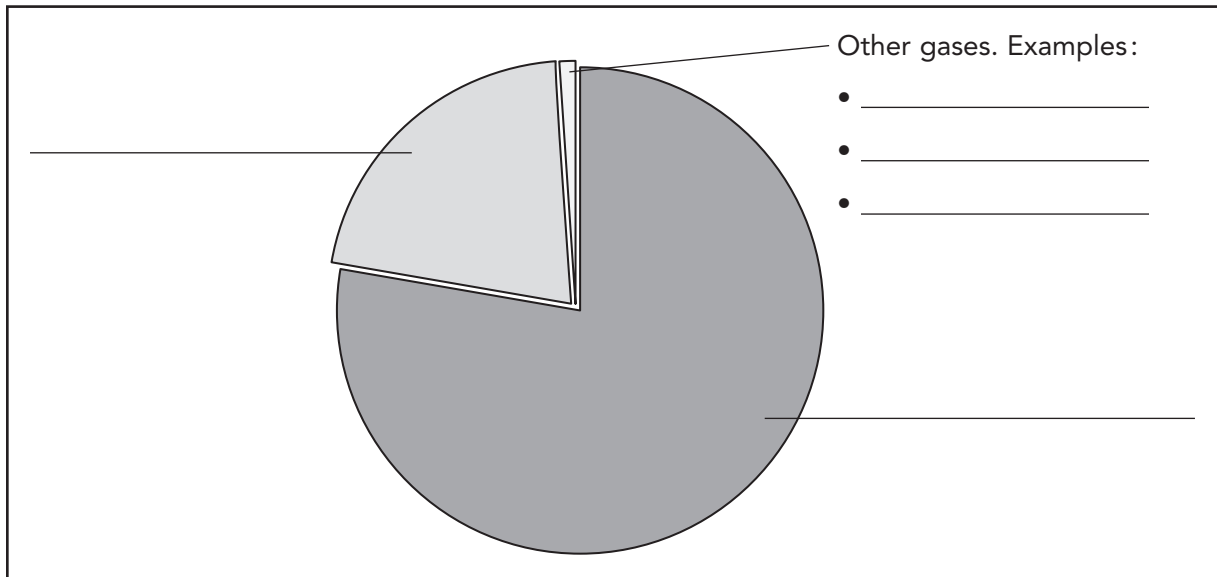
## Definitions

- The atmosphere is \_\_\_\_\_  
\_\_\_\_\_
  - Air is \_\_\_\_\_  
\_\_\_\_\_
  - Atmospheric pressure is \_\_\_\_\_  
\_\_\_\_\_
- Unit of measurement: \_\_\_\_\_ Symbol: \_\_\_\_\_

## Role of the atmosphere in maintaining life on Earth

- \_\_\_\_\_  
\_\_\_\_\_
- \_\_\_\_\_  
\_\_\_\_\_
- \_\_\_\_\_  
\_\_\_\_\_

## Composition of the atmosphere



## Layers of the atmosphere

Layer	Altitude	Distinctive features
		<ul style="list-style-type: none"> <li>• _____</li> <li>• _____</li> </ul>
Thermosphere	80–500 km	<ul style="list-style-type: none"> <li>• The hottest layer of the atmosphere, temperatures climb to 1800°C. Shooting stars and polar auroras form here.</li> </ul>
		<ul style="list-style-type: none"> <li>• _____</li> <li>• _____</li> </ul>
		<ul style="list-style-type: none"> <li>• _____</li> <li>• _____</li> </ul>
		<ul style="list-style-type: none"> <li>• _____</li> <li>• _____</li> </ul>

## Factors affecting atmospheric pressure

Factor	Variation in the factor	Effect
Number of air particles		<ul style="list-style-type: none"> <li>• _____</li> </ul>
		<ul style="list-style-type: none"> <li>• _____</li> </ul>
Temperature of air particles		<ul style="list-style-type: none"> <li>• _____</li> <li>• _____</li> </ul>
	Decrease	<ul style="list-style-type: none"> <li>• Particles move closer together and the air tends to fall.</li> <li>• A high-pressure area (anticyclone) forms.</li> </ul>