

11–14 years

Atoms, molecules and compounds quiz

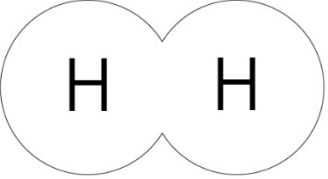
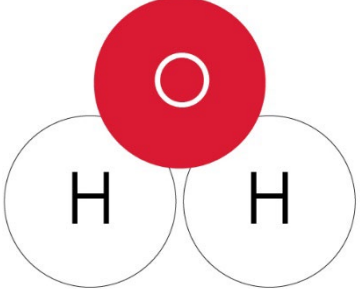

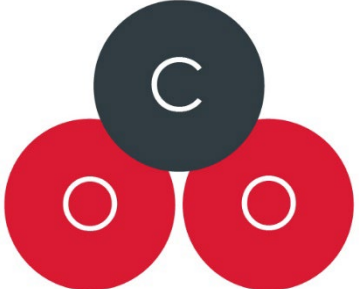
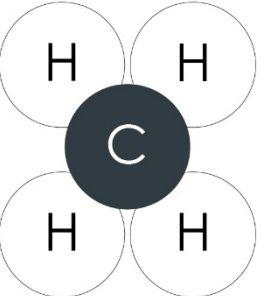


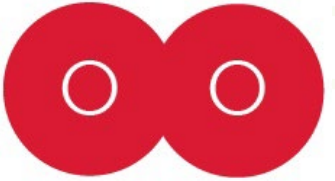

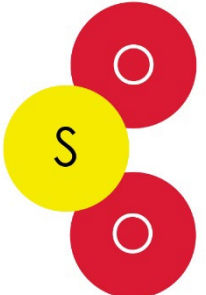

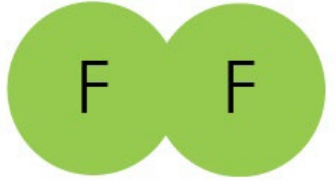
Learning objectives

1. Identify atoms, molecules, elements and compounds using particle diagrams.
2. Use particle diagrams to classify a substance as an element or compound and as molecules or atoms.

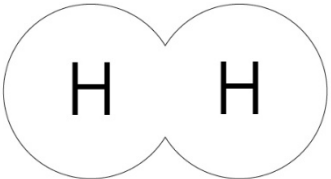
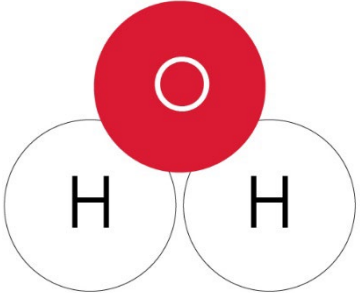

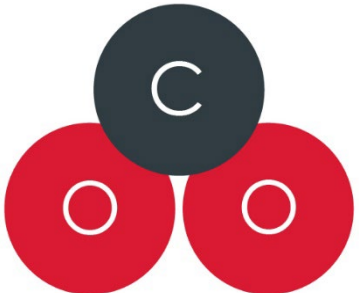
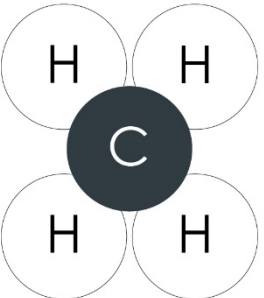


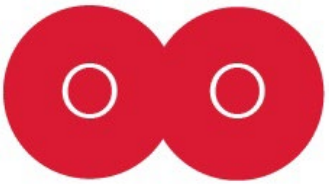

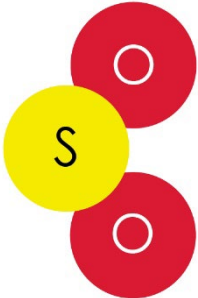

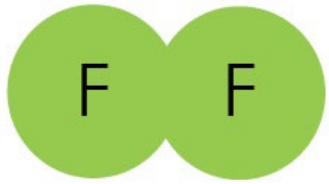
Let's check our definitions

- Atom – simplest particle of an element
- Element – made of one type of atom
- Molecule – two or more atoms chemically bonded
- Compound – two or more elements chemically bonded

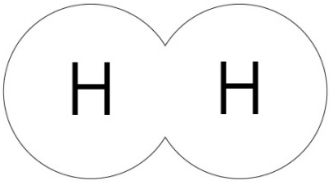
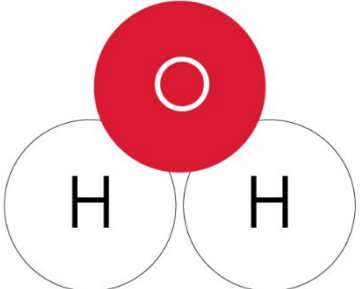

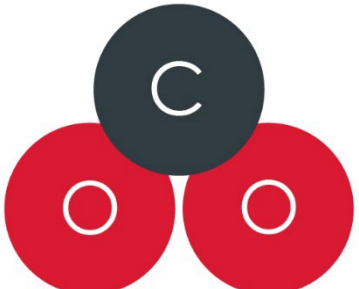
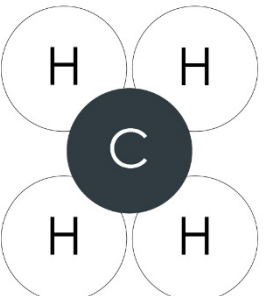


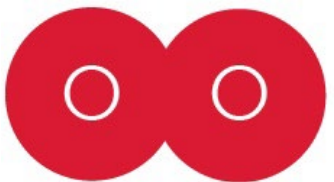

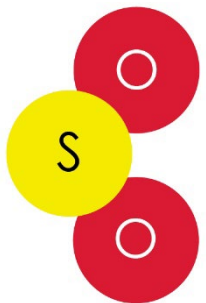

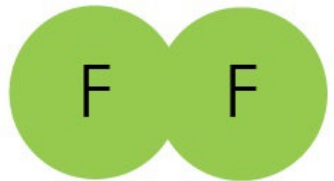
1. Label as either an atom or molecule

a.  Molecule	b.  Molecule	c.  Molecule	d.  Molecule
e.  Molecule	f.  Molecule	g.  Atom	h.  Molecule
i.  Atom	j.  Molecule	k.  Molecule	l.  Molecule

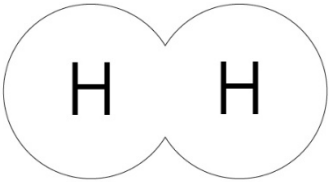
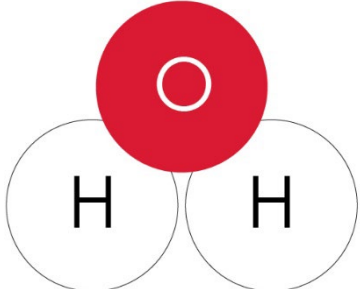

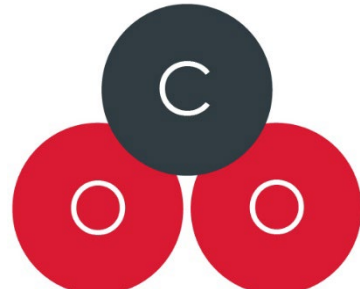
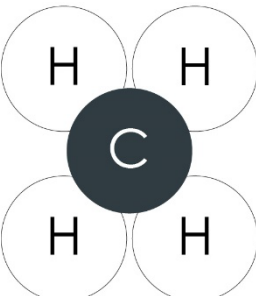

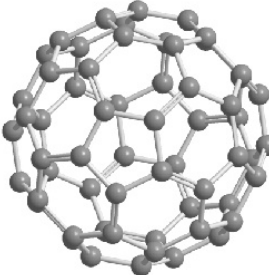
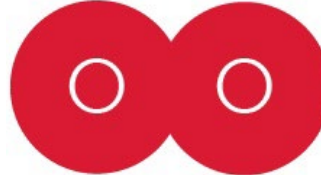
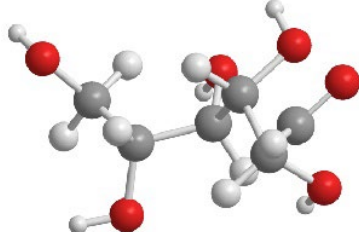
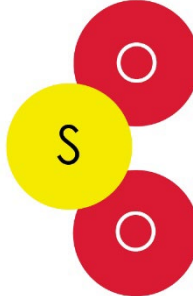

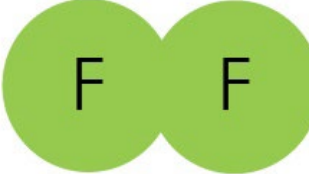
2. Label as either an element or non-element

a.  Element	b.  Not an element	c.  Element	d.  Not an element
e.  Not an element	f.  Element	g.  Element	h.  Element
i.  Element	j.  Not an element	k.  Not an element	l.  Element

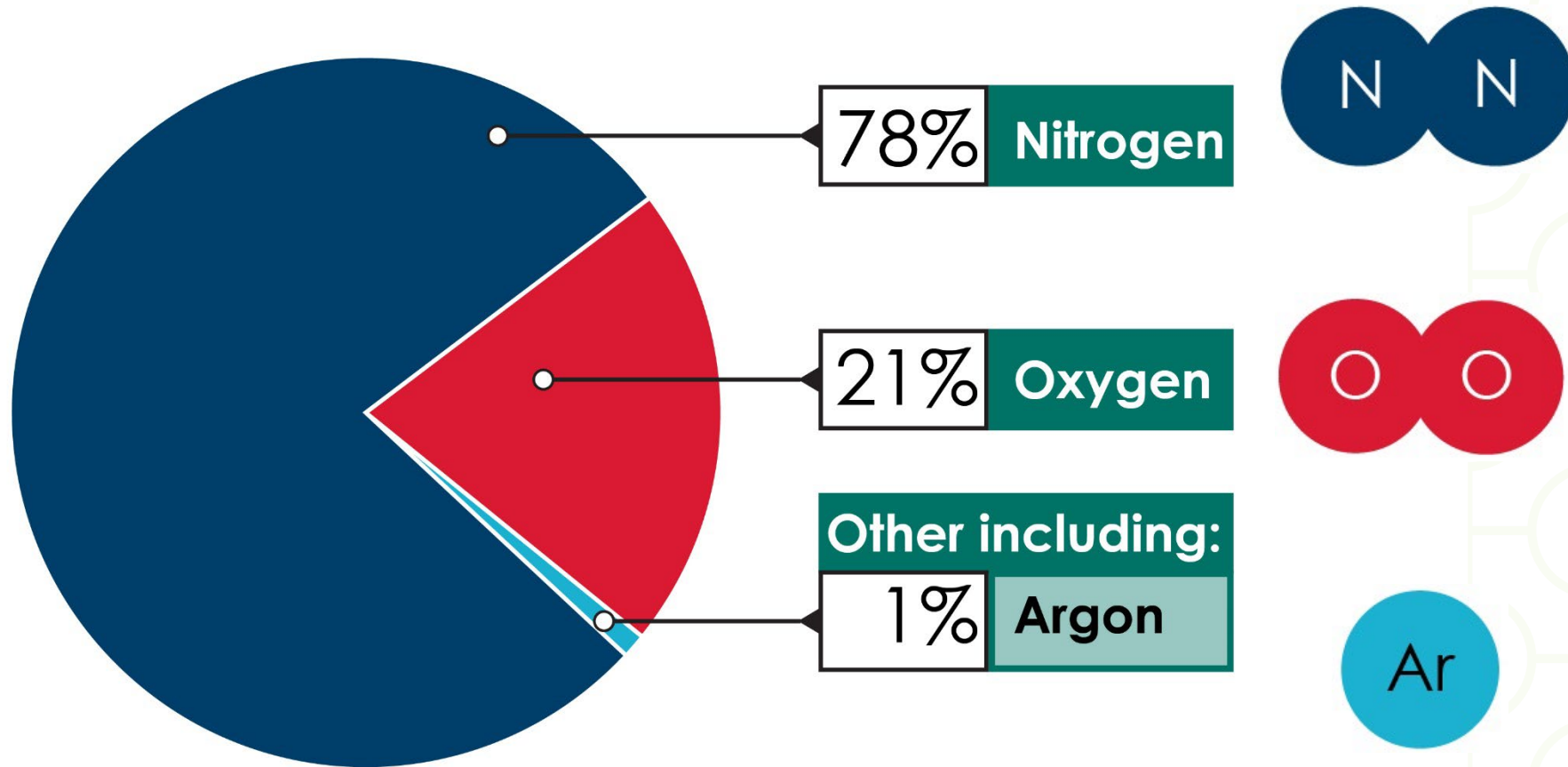
3. Label as an element, molecule or both

a.  Both	b.  Molecule	c.  Both	d.  Molecule
e.  Molecule	f.  Both	g.  Element	h.  Both
i.  Element	j.  Molecule	k.  Molecule	l.  Both

4. Label as either a molecule, compound or both

a.  Molecule	b.  Both	c.  Molecule	d.  Both
e.  Both	f.  Molecule	g.  Molecule	h.  Molecule
i.  Both	j.  Both	k.  Both	l.  Molecule

Pie chart of the gases in Earth's atmosphere



5. How much is found in our atmosphere?

a. Trace amounts	b. Trace amounts	c. 78%	d. Less than 1% (but rising!)
e. Trace amounts	f. Not found	g. 1%	h. 21%
i. Trace amounts	j. Trace amounts	k. Trace amounts	l. Not found