

Properties and changes

+ Eg.
Iron reacts with oxygen,
forms Iron (II,III) oxide
when strongly heated

— describes substances
changing into/ reacting
w/ other substances

Chemical
properties

Chemical
change

— ≥ 1 new substance
are produced

— eg. $\text{Fe} \rightarrow \text{FeCl}_2$ when
reacting w/ HCl

1. appearance (colour + state)
2. smell (odour [less]?)
3. density $>$ or $<$ than
4. melting / boiling point
5. hardness / strength
6. solubility in ...
7. conductivity (electrical / thermal)
8. malleability & ductility
(rolled \rightarrow sheets) (pulled \rightarrow wires)

— determined w/o
having to change
to new substances

Physical
properties

Physical
change

— no new substance
are produced

