

6.3 COMPOUNDS

CHEMICALLY

TWO

ELEMENTS

1. A compound consists of _____ or more _____ that are mixed _____.

2. Combination METAL and NON METAL elements

| METAL | | NON METAL | | COMPOUND |
|-----------|---|-----------|---|-----------------------------------|
| COPPER | + | OXYGEN | → | |
| IRON | + | | → | IRON OXIDE |
| | + | WATER | → | SODIUM HYDROXIDE + HYDROGEN GAS |
| IRON | + | | → | IRON SULPHIDE |
| | + | | → | ZINC OXIDE |
| POTASium | + | | → | POTASium HYDROXIDE + HYDROGEN GAS |
| ALUMINIUM | + | | → | ALUMINIUM OXIDE |

OXYGEN

ZINC

WATER

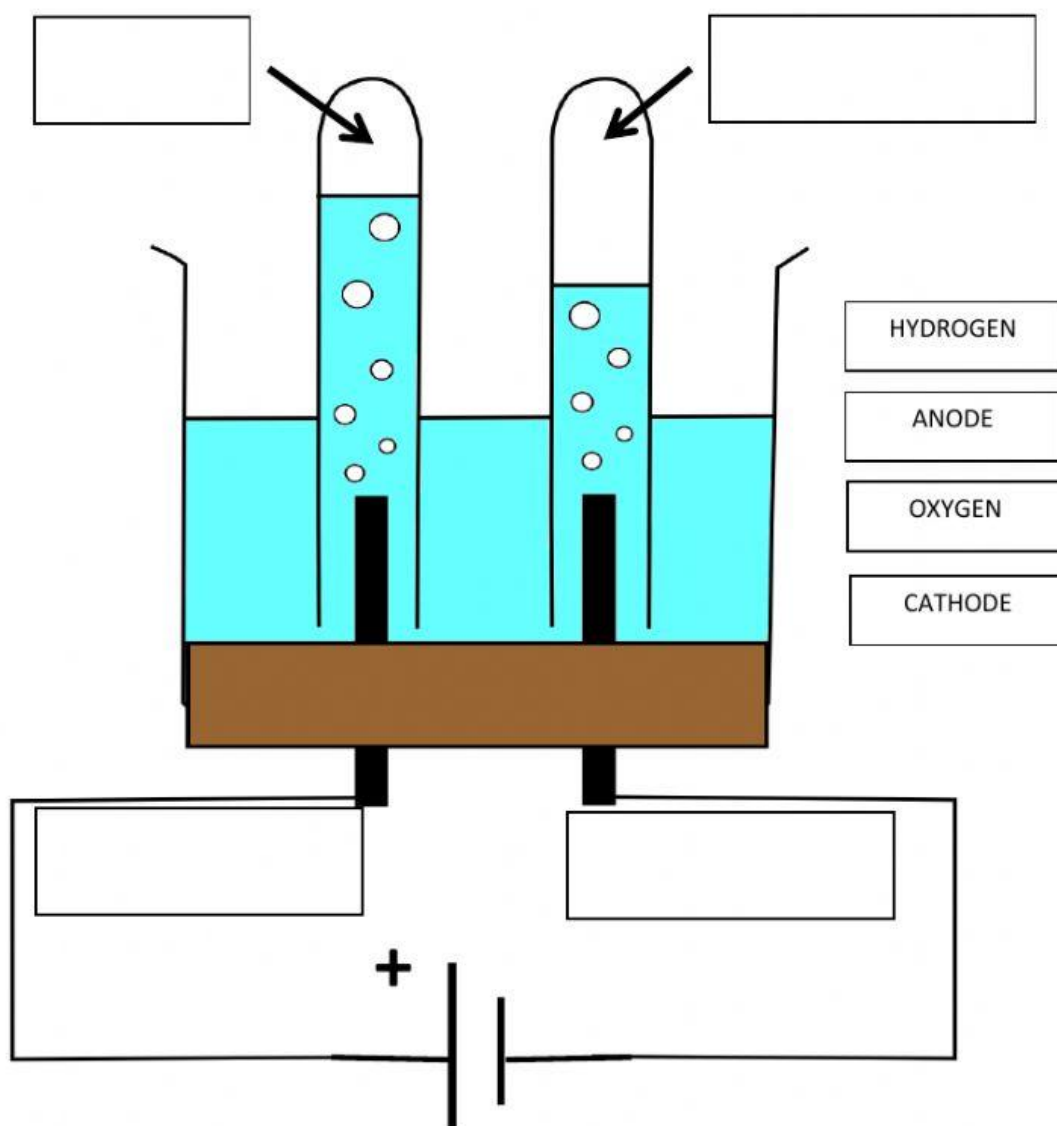
OXYGEN

SULPHUR

SODIUM

OXYGEN

COPPER OXIDE



| SIMILARITIES | |
|-----------------|-----------------|
| PHYSICAL CHANGE | CHEMICAL CHANGE |
| | |
| DIFFERENCES | |
| PHYSICAL CHANGE | CHEMICAL CHANGE |
| | |

FORMS NEW SUBSTANCES

NEEDS ENERGY

OCCURS TO MATTER

DOES NOT FORM NEW SUBSTANCES

NEEDS MORE ENERGY

THE PROPERTIES OF THE SUBSTANCES
REMAIN NOT THE SAME

NEEDS LESS ENERGY

THE CHEMICAL COMPOSITION OF THE
SUBSTANCES REMAIN THE SAME

THE PROPERTIES OF THE
SUBSTANCES REMAIN THE SAME

THE SUBSTANCES AND PRODUCTS HAVE
DIFFERENT CHEMICAL COMPOSITION