

TEACHER INSTRUCTIONS

- Photocopy onto different coloured card, laminate and use as a class starter.
- Cut these into “dominoes” ie cut sheet into rows and then lengthwise so column 1 & 2 and column 3 & 4 are left together.
- On the master the answers are in columns 1 & 3, which follow the questions or statements given in columns 2 & 4. (The first box in column 1 is the answer to the last question in column 4.)
- Place all cards face upwards and then students sort out so when all of the dominoes are put together correctly they will form a square.

REDOX DOMINOES

-1	Oxidation number of bromine in BrO_3^-	+5	Oxidation is:
Loss of electrons or gain of O or loss of H	Oxidation number of Cl_2 is:	0	A common oxidising agent or oxidant is orange in colour.
Dichromate ion	When I^- is oxidised what is the product?	I_2	What is used as the standard half cell?
H^+/H_2	What colour change occurs when permanganate ions in acid are reduced (in acidic conditions)?	From purple to colourless	$E^\circ (\text{Na}^+/\text{Na}) = -2.71\text{V}$ $E^\circ (\text{Al}^{3+}/\text{Al}) = -1.66\text{V}$ Which is the better reductant?
Na	What colour change occurs when dichromate ions are reduced (in acidic conditions)?	From orange to green	What is the formula for the thiosulfate ion?

$\text{S}_2\text{O}_3^{2-}$	What process occurs at the anode?	Oxidation	What is a salt bridge for?
To maintain the balance of ions.	What is the standard temperature?	25°C or 298K	What does // represent in a cell diagram?
Salt bridge	Is reduction on the LHS or RHS of a cell?	Right hand side	E° (cell) = ?
E° (Red) - E° (Ox)	In a lead acid battery what reaction occurs at the anode?	$\text{Pb(s)} \rightarrow \text{Pb}^{2+}(\text{aq})$	What process occurs at the cathode?
Reduction	What is the oxidation number of N in N_2O	+1	What is the oxidation number of O in hydrogen peroxide?