

## INTRODUCTION TO ELECTROLYSIS WORKSHEET

1) Fill in the blanks in the questions below, using the words from the **Word Bank** below.

| WORD BANK |             |              |           |              |
|-----------|-------------|--------------|-----------|--------------|
| electrode | electrolyte | anode        | cations   | ions         |
| oxidation | electrical  | reduction    | electrons | electrolysis |
| anions    |             | electrolytic |           | cathode      |

- a) ..... conduction occurs when an electric current is caused by the flow of ions.
- b) The decomposition of a molten or aqueous ionic substance by the passage of electricity is known as .....
- c) Molten sodium chloride is a liquid conductor which is also known as an .....
- d) ..... conduction occurs when an electric current is caused by the movement of electrons.
- e) ..... are attracted to the ..... which is the negatively charged electrode.
- f) Metals conduct electricity by the movement of .....
- g) The process of ..... occurs at the positively charged electrode where the ions lose electrons.
- h) Graphite is an example of a solid conductor which is also known as an .....
- i) ..... are attracted to the ..... which is the positively charged electrode.
- j) The process of ..... occurs at the negatively charged electrons where the ions gain electrons.

..... [continue to next page].....

2) Label the electrolytic cell below in the spaces provided.

