Isolate the foreign DNA by using \_\_restriction enzymes\_\_ that cleave (cut) the donor DNA at very specific places

**How to Make a Transgenic Organism Flow Chart**

1.

2.

3.

4.

Vectors transfer the donor DNA into the host

a. mechanical vectors = \_\_\_carry DNA into a cell\_\_\_

b. biological vectors = virus or bacterial plasmid (\_\_small rings of DNA\_\_)

If host and foreign DNA have been cleaved by the same restriction enzyme, the ends can \_\_\_be\_\_\_ \_\_join\_\_ together.

Gene cloning occurs- this cell continues to divide by \_\_mitosis\_\_ and \_\_meiosis\_\_ this new foreign DNA (gene) as if it were its own