

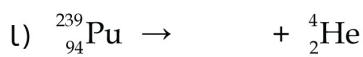
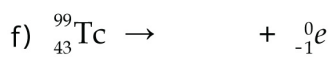
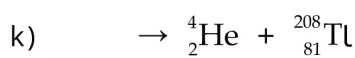
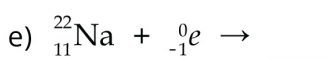
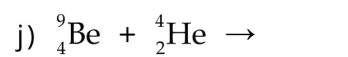
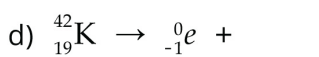
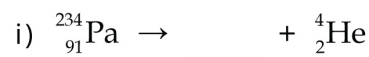
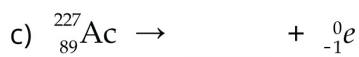
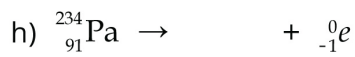
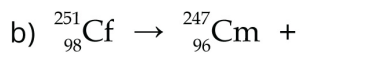
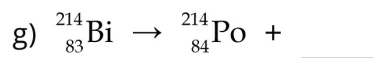
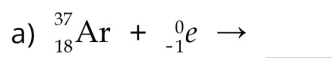
Name : \_\_\_\_\_ Date : \_\_\_\_\_



# Nuclear Equation Worksheet



1. Fill in the blanks with appropriate atomic symbols.



2. For problem 1, label each reaction as involving an alpha, beta, or gamma particle. Also, label whether it is an example of decay (particle being given off) or capture (particle being taken in).

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

d) \_\_\_\_\_

e) \_\_\_\_\_

f) \_\_\_\_\_

g) \_\_\_\_\_

h) \_\_\_\_\_

i) \_\_\_\_\_

j) \_\_\_\_\_

k) \_\_\_\_\_

l) \_\_\_\_\_

3. Write down the following equations.

a) Alpha decay of Curium - 247

b) Beta capture of manganese - 53

c) Beta decay of sulfur - 35

d) Beta capture of tellurium - 121

d) Gamma radiation given off by carbon - 13

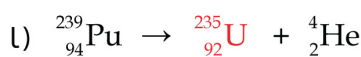
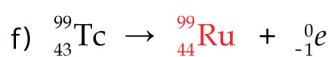
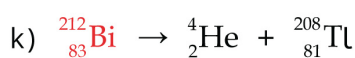
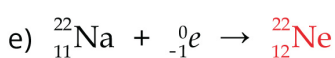
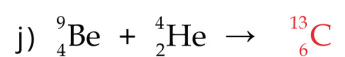
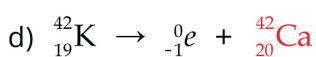
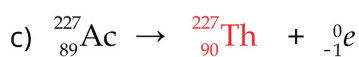
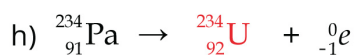
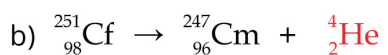
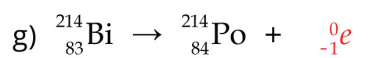
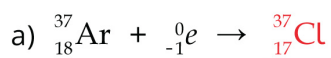
Name : \_\_\_\_\_ Date : \_\_\_\_\_



# Nuclear Equation Worksheet



1. Fill in the blanks with appropriate atomic symbols.



2. For problem 1, label each reaction as involving an alpha, beta, or gamma particle. Also, label whether it is an example of decay (particle being given off) or capture (particle being taken in).

a) β capture

b) α decay

c) β decay

d) β decay

e) β capture

f) β decay

g) β decay

h) β decay

i) α decay

j) α capture

k) α decay

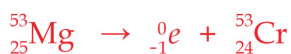
l) α decay

3. Write down the following equations.

a) Alpha decay of Curium – 247



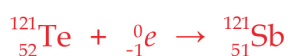
b) Beta capture of manganese – 53



c) Beta decay of sulfur – 35



d) Beta capture of tellurium – 121



d) Gamma radiation given off by carbon – 13

