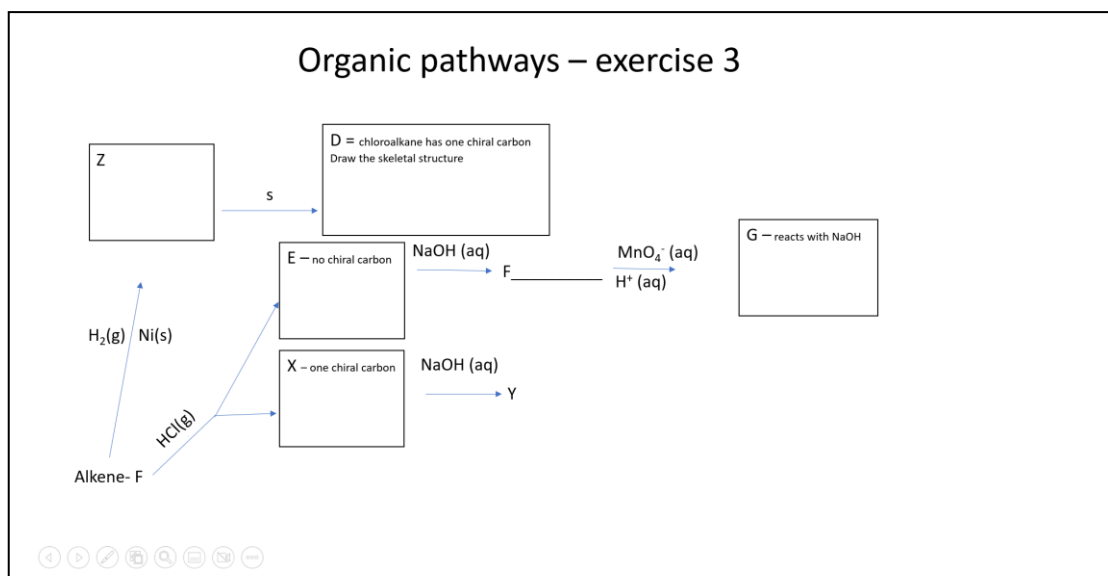
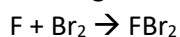


Video worksheet- organic pathways – exercise 3.



1. Consider the pathways shown above. Using these pathways answer the following questions.

- a. A pure, 7.013 gram sample of an unknown alkene(F) reacts completely with 16.0 grams of bromine ( $\text{Br}_2$ ) according to the reaction below.



Identify alkene F.

b. Name and draw the skeletal structures of the following compounds

- Z \_\_\_\_\_
- X \_\_\_\_\_
- E \_\_\_\_\_
- D \_\_\_\_\_
- G \_\_\_\_\_
- L \_\_\_\_\_

c. i. to what class of compounds does F belong to? \_\_\_\_\_

ii. to what class of compounds does G belong to? \_\_\_\_\_

d. Identify the reagents below "s". \_\_\_\_\_

e. Identify the type of reaction that forms:

i. E \_\_\_\_\_

ii. D \_\_\_\_\_

iii. G \_\_\_\_\_

f. Name the class of compounds Y belongs to.