SNC 2D0 - Food Chain/Food Web Worksheet

1. Construct a single food chain based on each of the following descriptions.
(a) A loon eats a walleye which feeds on a catfish.
(b) Algae are eaten by snails which are eaten by crayfish which in turn eaten by catfish.
(c) small aquatic plants are eaten by zebra mussels which are eaten by goby (a fish)
(d) small aquatic plants are eaten by snails which are eaten by ducks
(e) a wolf eats a moose which in turn eats aquatic plants
(f) phytoplankton are eaten by zooplankton which are eaten by herring which are eaten by tuna which are eaten by dolphins
(g) green plant is eaten by a grasshopper which is eaten by a field mouse which is eaten by a snake which is eaten by an eagle
(h) a cougar eats squirrels which eat grasshoppers which eat dandelions

2. Represent all of the following food chains with a well-designed food web on one piece of blank paper, 21 cm x 30 cm large. Each organism should only be represented once.
   conifer needles ⟶ grouse ⟶ hawk
   conifer seeds ⟶ field mouse ⟶ cougar
   dandelions ⟶ grasshopper ⟶ squirrel
   berries from shrubs ⟶ shrew ⟶ hawk
   dandelions ⟶ grasshopper ⟶ spider ⟶ field mouse
   grasses/thistles ⟶ grasshopper ⟶ spider ⟶ squirrel
   grasses/thistles ⟶ deer ⟶ cougar
   conifer seeds ⟶ squirrel ⟶ cougar
   grasses/thistles ⟶ grasshopper ⟶ squirrel ⟶ hawk
   conifer seeds ⟶ grouse ⟶ hawk
   dandelions ⟶ deer ⟶ cougar
   berries from shrubs ⟶ grouse ⟶ hawk
   conifer seeds ⟶ squirrel ⟶ hawk
   conifer seeds ⟶ field mouse ⟶ hawk
   berries from shrubs ⟶ shrew ⟶ cougar
   berries from shrubs ⟶ deer ⟶ cougar
   dandelions ⟶ grasshopper ⟶ spider ⟶ shrew
   grasses/thistles ⟶ grasshopper ⟶ grouse
   berries from shrubs ⟶ squirrel ⟶ cougar
   berries from shrubs ⟶ field mouse ⟶ hawk

3. Refer to the diagram of a "Food Web For a Deciduous(Temperate) Forest" in answering these questions.
(a)   Name four food sources of a skunk.
(b)   Name all of the organisms that feed on mice.
(c)   Name three omnivores in the ecosystem.
(d)   Name five carnivores and two herbivores in the ecosystem.
(e)   Write out two food chains that are only two organisms long.
(f)   Write out four food chains that are three organisms long.
(g)   Write out three food chains that are four organisms long.
(h)   Name all six top carnivores in the food web