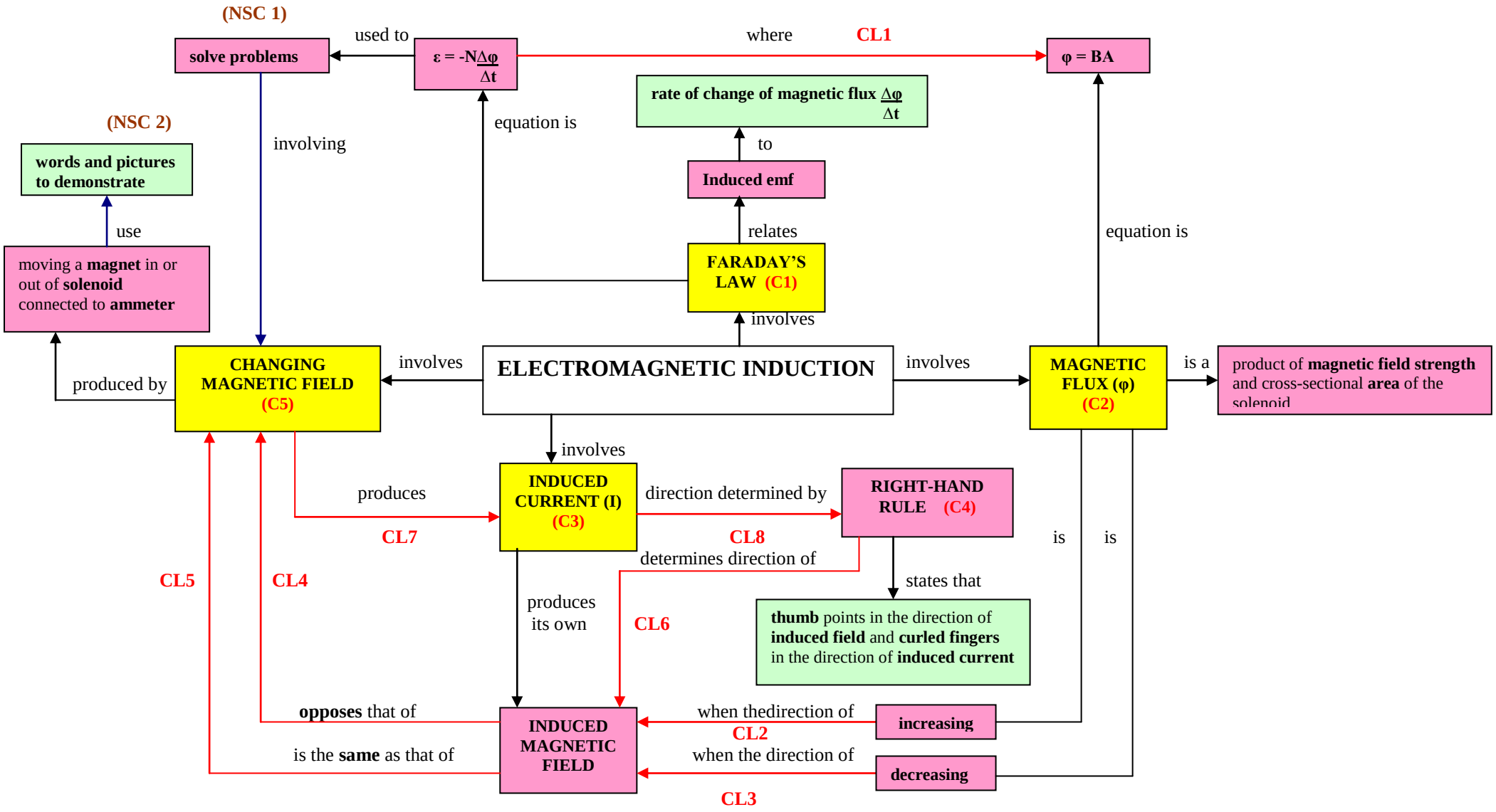
CM 1: EMI


(NSC 1)
solve problems
used to
ε = -NΔφ/Δt
where
CL1
φ = BA
rate of change of magnetic flux Δφ/Δt
equation is
to
Induced emf
relates
FARADAY'S LAW (C1)
involves
equation is
(NSC 2)
words and pictures to demonstrate
use
moving a magnet in or out of solenoid connected to ammeter
involving
produced by
CHANGING MAGNETIC FIELD (C5)
involves
ELECTROMAGNETIC INDUCTION
involves
MAGNETIC FLUX (φ) (C2)
is a
product of magnetic field strength and cross-sectional area of the solenoid
involves
INDUCED CURRENT (I) (C3)
produces
CL7
direction determined by
RIGHT-HAND RULE (C4)
CL8
determines direction of
is
is
states that
thumb points in the direction of induced field and curled fingers in the direction of induced current
CL5
CL4
produces its own
CL6
opposes that of
is the same as that of
INDUCED MAGNETIC FIELD
when thedirection of
CL2
increasing
when the direction of
decreasing
CL3