

Matter

Energy transfers
and matter changes
happen together

Energy

What
changes do
we observe
in the
matter?

What
particle-level
changes are
happening
in the
matter?

Fields
generated by
matter result
in forces

How and why is this phenomenon occurring?

Forces can
transfer
energy

How do we
know there is
energy in the
system?

Where
(and how)
is energy
being
transferred?

Forces

What forces
are acting on
matter?

When are these
forces balanced
or unbalanced?