

Approach for Interaction Diagrams

1. Convert all hadrons to quarks. Leave leptons as they are.
2. Write reactants at the bottom and products at the top.
 - Line up quarks from top to bottom as much as possible.
 - Put particle pairs being created or destroyed next to each other.
3. For hadron-only reactions, check the net quark type. Is there a change?
 - If yes, then weak force, with W^+ , W^- , or Z^0 as messenger.
 - If no, then gluons (strong force) or photons (EM) as messenger.
4. Identify quarks that do *not* interact and connect them with lines from bottom to top.
5. Put in interactions and label colors where appropriate.