Appendix : WFF 'N Proof WFF 'N Proof – A Game of Symbolic Logic

Creating a WFF

Single Letter WFF – p, q, r, s

2 Letter WFFs – Np, Nq, Nr, Ns

3 Letter WFFs – Use a CAKE letter and 2 single WFFs after the CAKE letter – Cpq, Ars, Kqr, Eps

3 or more letter WFFs – CAKE letters connect WFFs together to make longer WFFs – KrAsp, EKrqs, AEspKsr

First 7 Rules

K out	Ko	Kw1w2 ----------→ w1 or w2
K in	Ki	w1, w2 ----------→ Kw1w2 or Kw2w1
Repetition	Rp	w1 ----------→ w1 (any WFF--→ any WFF)
A in	Ai	w1 or w2 -------→ Aw1w2
C out	Co	Cw1w2, w1 -----→ w2
E out	Eo	Ew1w2 ------→ Cw1w2 or Cw2w1
E in	Ei	Cw1w2, Cw2w1 ------→ Ew1w2 or Ew2w1

Next 5 Rules: These rules use sub-proofs

C in	Ci	w1 → w2 (in a sub-proof)------→ Cw1w2
A out	Ao	Aw1w2, w1→ w3(sub-proof), w2→ w3(sub-proof), ---→ w3
N out	No	Nw1 →w2, Nw2(sub-proof) ------→ w1
N in	Ni	w1 →w2, Nw2(sub-proof) ------→ Nw1
Reiteration	R	Brings a WFF from outside a sub-proof to inside a sub-proof.