Appendix B

List of models compared to obtain the best random structure

M1 <- glmer(acc ~ match\*type\*ex\_centred + (1|part) + (1|item)

M2 <- glmer(acc ~ match\*type\*ex\_centred + (match|part) + (1|item)

M3 <- glmer(acc ~ match\*type\*ex\_centred + (type|part) + (1|item)

M4 <- glmer(acc ~ match\*type\*ex\_centred + (match + type|part) + (1|item)

M5 <-glmer(acc ~ match\*type\*ex\_centred + (match\*type|part) + (1|item)

M6 <-glmer(acc ~ match\*type\*ex\_centred + (1|part) + (match|item)

M7 <-glmer(acc ~ match\*type\*ex\_centred + (1|part) + (type|item)

M8 <-glmer(acc ~ match\*type\*ex\_centred + (1|part) + (match + type|item)

M9 <-glmer(acc ~ match\*type\*ex\_centred + (1|part) + (match\*type|item)

M10 <-glmer(acc ~ match\*type\*ex\_centred + (match|part) + (match|item)

M11 <-glmer(acc ~ match\*type\*ex\_centred + (match|part) + (type|item)

M12 <-glmer(acc ~ match\*type\*ex\_centred + (match|part) + (match + type|item)

M13 <-glmer(acc ~ match\*type\*ex\_centred + (match|part) + (match\*type|item)

M14 <-glmer(acc ~ match\*type\*ex\_centred + (type|part) + (match|item)

M15 <-glmer(acc ~ match\*type\*ex\_centred + (type|part) + (type|item)

M16 <-glmer(acc ~ match\*type\*ex\_centred + (type|part) + (match + type|item)

M17 <-glmer(acc ~ match\*type\*ex\_centred + (type|part) + (match\*type|item)

M18 <-glmer(acc ~ match\*type\*ex\_centred + (match + type|part) + (match + type|item)

M19 <-glmer(acc ~ match\*type\*ex\_centred + (match\*type|part) + (match\*type|item)

anova (M1, M2, M3, M4, M5, M6, M8, M10, M11, M12, M13, M14, M15, M16, M18, M19)

(only models that converged were compared)

all models contained the following chunk of script: data = bilinguals\_revision, family = binomial, control = glmerControl(optimizer = "bobyqa", nAGQ = 10), na.action=na.omit