**A set of Instructions for Player 2 (O)**

**MOVE 1 for player 2: IF** there is an X in the middle **THEN** Go in a free corner **OTHERWISE** Go in the middle

**MOVE 2 for player 2: IF** there are 2Xs and a space in a line **THEN** Go in that space **OTHERWISE IF** there are 2 Xs in opposite corners **THEN** Go in a free side space **OTHERWISE** Go in any free space

**MOVE 3 for player 2: IF** there are 2Os and a space in a line **THE**N Go in that space **OTHERWISE IF** there are 2Xs and a space in a line **THEN** Go in that space **OTHERWISE** Go in any free space

**MOVE 4 for player 2: IF** there are 2Os and a space in a line **THEN** Go in that space **OTHERWISE IF** there are 2Xs and a space in a line **THEN** Go in that space **OTHERWISE** Go in any free space

**An alternative set of Instructions for Player 2 (O)**

**MOVE 1 for player 2: IF** there is an X in the middle **THEN** Go in a free corner **OTHERWISE** Go in the middle

**MOVE 2 for player 2: IF** there are 2Xs and a space in a line **THEN** Go in that space

**MOVE 3 for player 2: IF** there are 2Os and a space in a line **THE**N Go in that space **OTHERWISE IF** there are 2Xs and a space in a line **THEN** Go in that space **OTHERWISE** Follow the instructions for Move 3 from the start again.

**MOVE 4 for player 2: IF** there are 2Os and a space in a line **THEN** Go in that space **OTHERWISE IF** there are 2Xs and a space in a line **THEN** Go in that space **OTHERWISE** Go in any free space

**Glue Commands**

IF THEN OTHERWISE

**Commands**

Go in the middle

Go in a free side space

Go in a free corner

Go in the opposite corner

Go in an adjacent corner

Go in that space

Go in any free space

Go in a corner away from that side

**Conditions (tests)**

there are 2Xs and a space in a line

there are 2 Os and a space in a line

there is an X in the middle

there are 2 Xs in opposite corners

there is an X in a corner with the opposite corner a space

there is an O in the middle

there is an X in a corner there is an O on the side there is an X on the side

**You may build up instructions using the following patterns: Command**

eg Go in any free space

**IF condition THEN command**

eg IF there is an O in the middle THEN Go in any free space

**OTHERWISE command**

eg OTHERWISE Go in the middle

**OTHERWISE IF condition THEN command**

eg OTHERWISE IF there is an X on the side THEN Go in a corner away from that side

**A set of Instructions for Player 2 (O)**

**MOVE 1 for Player 1:**

Go in any free space

**MOVE 1 for player 2:**

**IF** there is an X in the middle **THEN** Go in a free corner **OTHERWISE** Go in the middle

**MOVE 2 for Player 1:**

Go in any free space

**MOVE 2 for player 2:**

**IF** there are 2Xs and a space in a line **THEN** Go in that space **OTHERWISE IF** there are 2 Xs in opposite corners **THEN** Go in a free side space **OTHERWISE** Go in any free space

**MOVE 3 for Player 1:**

**IF** there are 2Xs and a space in a line **THE**N Go in that space **OTHERWISE IF** there are 2Os and a space in a line **THEN** Go in that space **OTHERWISE** Go in any free space

**MOVE 3 for player 2:**

**IF** there are 2Os and a space in a line **THE**N Go in that space **OTHERWISE IF** there are 2Xs and a space in a line **THEN** Go in that space **OTHERWISE** Go in any free space

**MOVE 4 for Player 1:**

**IF** there are 2Xs and a space in a line **THEN** Go in that space **OTHERWISE IF** there are 2Os and a space in a line **THEN** Go in that space **OTHERWISE** Go in any free space

**MOVE 4 for player 2:**

**IF** there are 2Os and a space in a line **THEN** Go in that space **OTHERWISE IF** there are 2Xs and a space in a line **THEN** Go in that space **OTHERWISE** Go in any free space