Teacher’s Note: You have two card sets to choose from for the chat stations.

The first set of five cards provide the type of reaction and students must solve for the products using the molecular models.

The second set of five cards provides the entire equation and students must determine what type of reaction each equation is and create the products using the molecular models.

Determine the product(s). Use the kit to show the atom configurations. Add responses to your handout.

STATION 1: SINGLE REPLACEMENT

**Fe + 2CuCl 🡪**

Determine the product(s). Use the kit to show the atom configurations. Add responses to your handout.

STATION 2: DECOMPOSITION

2CuO 🡪

Determine the product(s). Use the kit to show the atom configurations. Add responses to your handout.

STATION 3: COMBUSTION

**CH4 + 2O2 →**

Determine the product(s). Use the kit to show the atom configurations. Add responses to your handout.

STATION 4: DOUBLE REPLACEMENT

**NaCl + HBr →**

Determine the product(s). Use the kit to show the atom configurations. Add responses to your handout.

STATION 5: SYNTHESIS

**2H2 + O2 🡪**

STATION 1

**Fe + 2CuCl 🡪 FeCl2 + 2Cu**

STATION 2

2CuO 🡪 2Cu + O2

STATION 3

**CH4 + 2O2 → CO2 + 2H2O**

STATION 4

**NaCl + HBr → NaBr + HCl**

STATION 5

**2H2 + O2 🡪 2H2O**