REACTION LAB TEACHER GUIDE

# Analysis

Based on your observations, identify the type (or types) of reactions each station would be and justify your answer. Also include the complete reaction.

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| Station 1 |
| Single replacement, redox  2Zn + 2HCl → H2 + 2ZnCl |

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| Station 2 |
| Decomposition  CaCO3 → CaO + CO2 |

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| Station 3 |
| Combustion, synthesis, redox  2Mg + O2 → 2MgO |

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| Station 4 |
| Double replacement, precipitation  KI + Pb(NO3)2 → KNO3 + PbI2 (s) |

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| Station 5 |
| Synthesis, redox  Cu + S → CuS |

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| Station 6 |
| Acid base  HCl + NaHCO3 → NaCl + CO2 + H2O |

*Adapted from https://www.chemedx.org/system/files/activity/types-chemical-reactions/types-chemical-reactions-student.pdf*