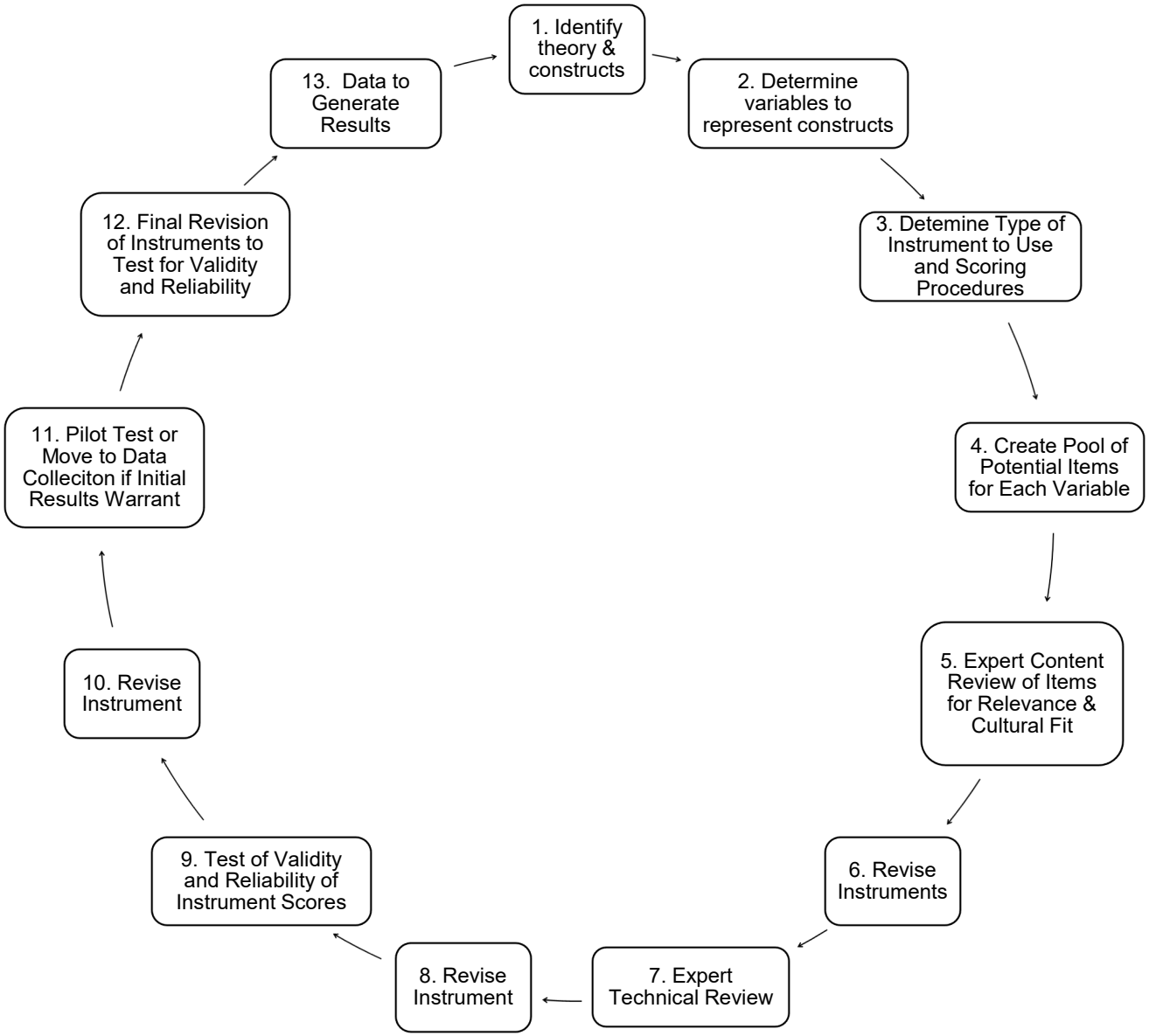Instrument Development