



Balancing Chemical Equations

Student Guide

Name: _____

Start:

1.
2. Click on the first link
3. Click on the **Run Now!** button.
4.  Explore the simulation. Be sure to click on everything.

5. Try both

 Balance Scales Bar Charts

- a. Talk about how they may be useful in the activity.
- b. Fill in the box-



Tell me what the scale and bar charts are helping you do? What is the purpose of these tools?

Which one does your group prefer **and** why? _____



6.



Is this equation balanced? Explain. _____

Change the coefficients in the equation until you get a !

What does this smiley face mean?

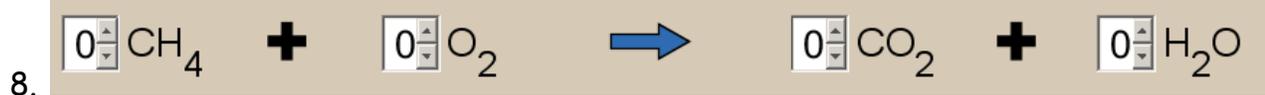


Teacher check-off



7.  Is this equation balanced? Explain. _____

Using the simulation- add coefficients so that the equation is balanced correctly.



Using the simulation- add coefficients so the equation is balanced correctly.



List all reactants:

List all products:

9.  Discuss the maximum (highest number) of ammonia molecules the simulation will let you make? Draw them:

 In the product, ammonia (2NH₃), What does the (2) tell you about the equation?

What does the (3) tell you? _____



Teacher check-off/check-in...

Go on to

[Balancing Game](#)

tab...