| PHET: Bu | ild a Molecule Con | iputer Sim |
|--|---------------------------------|------------------------|
| arning Goals: | | • |
| Describe the difference between | a molecule name and chemica | al formula. |
| Distinguish between the coefficient | ent and subscript in a chemical | formula. |
| Use pictorial representations of | f molecules to generate chem | ical formulas. |
| | | |
| rst Tab | | |
| Make a molecule: | | |
| a. How do you know you made | | |
| o. Write the molecule name of s | some molecules you made (ex | k. Water). |
| | | |
| | | |
| | | |
| | | |
| Malagula Namas and Chamiga | l Formulas. | |
| Molecule Names and Chemica | | log. |
| Molecule Names and Chemica a. Compare the name and chem | | les: |
| | | les: |
| | | les: Chemical Formula |
| a. Compare the name and chem | ical formula for some molecu | |
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5____

Name: _____

Second Tab

- 3. Make Many
 a. Fill all the collection boxes and then complete the questions for each Goal.

| Goal: 4H ₂ | | | | |
|---|-------------------------|--|--|--|
| Draw it! | | | | |
| What does the big '4' in 4H ₂ mean? | | | | |
| What does the little '2' in 4H2 mean? | | | | |
| | | | | |
| Goal: 2CO ₂ | | | | |
| Draw it! | | | | |
| What does the big '2' in 2CO ₂ mean? | | | | |
| What does the little '2' in 2CO2 mean? | | | | |
| | | | | |
| Goal: 20 ₂ | | | | |
| Draw it! | | | | |
| What does the big '2' in 20 ₂ mean? | | | | |
| What does the little '2' in 2O2 mean? | | | | |
| | | | | |
| Goal: 2NH ₃ | | | | |
| Draw it! | | | | |
| What does the big '2' in 2NH ₃ mean? | | | | |
| What does the little '3' in 2NH3 mean? | | | | |
| Third Tab Challenge 4. What's the biggest molecule you can make? a. Molecule Name: b. Chemical formula: 5. Can you make a molecule that can be broken a. Big molecule name: b. Big molecule chemical formula: c. Smaller molecule names: | into smaller molecules? | | | |
| d. Smaller molecule chemical formulas :(Now play molecularia) | | | | |