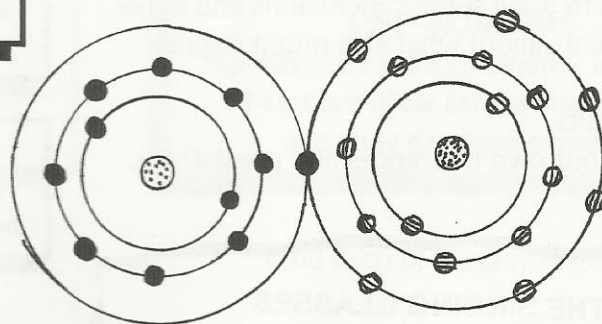


NOT THE REAL THING

To USE MODELS

is to use some sort of a structure or scheme that visually represents real objects or events.

Many models are three-dimensional. Imagine that Professor Aster Oid's representation of two atoms is three-dimensional. Use information from the model to fill in the blanks in his explanation.



1. This model shows a chemical reaction between the elements _____ and _____.
2. _____ has only 1 electron in its outer ring, making it _____ (stable, unstable).
3. _____ has only 7 electrons in its outer ring, making it _____ (stable, unstable).
4. When the two chemicals combine, the element _____ takes the extra electron from _____. This way, its last ring is filled. The other element, _____, has lost one electron, but now its outer orbit (second ring) is full. Both elements are happy with the combination!