Teacher's Guide

Relationship Between Atoms and Elements Intro Activity

Students will:

• use models of atoms and elements to illustrate that matter is made of atoms and elements and that they are "distinguished from each other by the types of atoms that compose them".

There are 8 cards that represent different atoms. There are 8 more cards that represent the elements that the atoms make up. By observation and explorations, students will discover that atoms and elements are distinguish from each other by the type of atoms they are made of.

Setup Tips:

Students can work individually, in partners, or in groups.

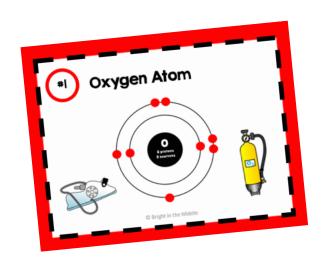
- I. You can choose to print out the cards for each person/pair/group for students to look through and explore.
- 2. There is also another option to just print them on a sheet of paper, front and back, if you are looking to save time, ink, and paper.
- 3. You will also need to make copies of the student sheet. An example answer key is provided!

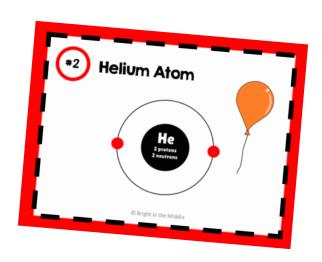
Students can read through the information and questions on the worksheet. Through this, they should determine the similarities and differences between atoms and elements. They will also look at their relationship with matter.

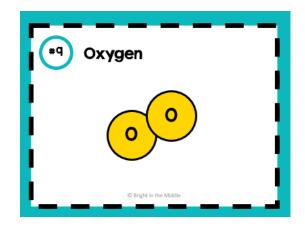
Key Takeaways:

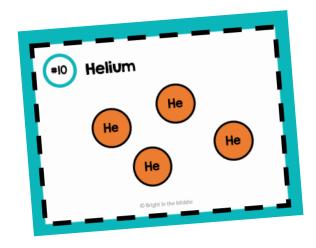
- Atoms are different from each other based on their subatomic particles. If you want to introduce students to protons, neutrons, and electrons, feel free!
- "Matter is made of atoms and elements and are distinguished from each other by the types of atoms that compose them".
- If you want to make students aware at the end, you can tell them that the number of protons in an atom determines the atom/element.

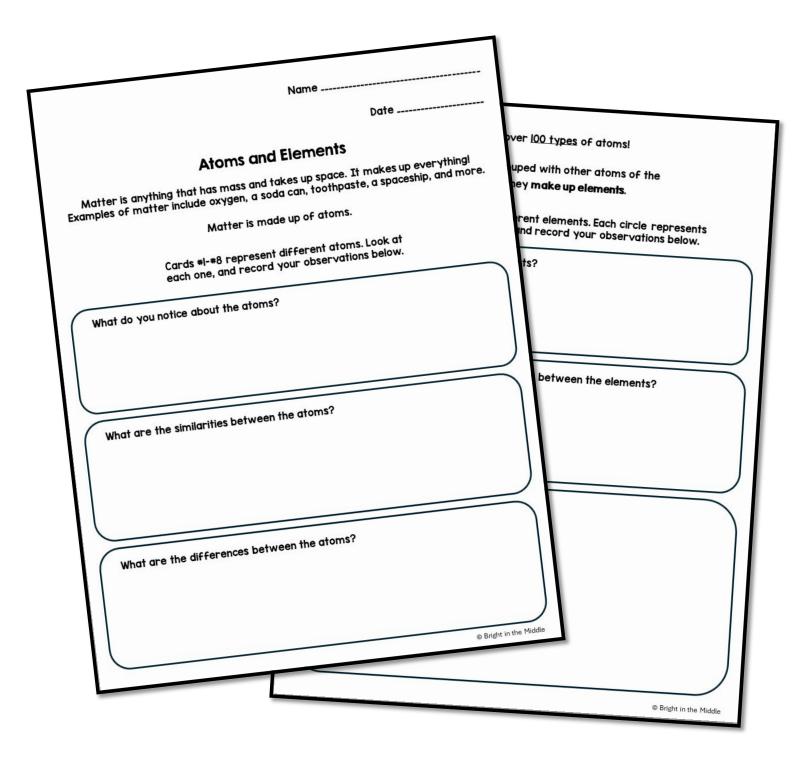
There are 8 cards that represent different atoms. There are 8 more cards that represent the elements that the atoms make up.











The student sheet will guide students (through observation and exploration) to ultimately learn that "matter is made of atoms and elements and are distinguished from each other by the types of atoms that compose them".

An example key is included!