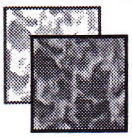
Name _____ Date _____



Activity 12: **An Elemental Trip Through Europe**

Directions: For each element combination in parentheses below, the **symbols** for the elements form a word. Write the symbols in the answer blank following each group of elements. This will help you complete the story.

> **Example:** (*uranium + selenium*) = USe (or, the word "use").

(thorium + iodine + sulfur) _____ past summer we took a long *(vanadium + actinium + astatine + iodine + oxygen + nitrogen)* _____ through Europe. We saw many *(phosphorus + aluminum + actinium + einsteinium)* _____ during our trip. *(silicon + nitrogen + cerium)* _____ Europe is *(tungsten + helium + rhenium)* _____ much of *(americium + erbium + iodine + calcium + sulfur)* _____ cultural *(hydrogen + erbium + iodine + tantalum + germanium)* _____ is derived, we tried to see as many historical *(phosphorus + lanthanum + cerium + sulfur)* _____ as possible.

We spent *(nickel + neon)* _____ days in *(fluorine + radium + nitrogen + cerium)* _____ . In *(phosphorus + argon + iodine + sulfur)* _____ , after visiting the Eiffel Tower and the *(argon + carbon)* _____ de Triomphe, we *(sulfur + astatine)* _____ at a *(calcium + iron)* _____ to watch the people. We saw the cathedral at Chartres on our drive to the *(sulfur + oxygen + uranium + thorium)* _____ of *(fluorine + radium + nitrogen + cerium)* _____ . We took a short side trip *(oxygen + vanadium + erbium)* _____ the Pyrenees to Spain to visit Barcelona and *(oxygen + boron + tantalum + indium)* _____ a flavor of Castilian and Moorish influences. Then *(barium + carbon + potassium)* _____ to *(sulfur + oxygen + uranium + thorium + erbium + nitrogen)* _____ *(fluorine + radium + nitrogen + cerium)* _____ and the beautiful *(beryllium + actinium + helium + sulfur)* _____ of *(nickel + cerium)* _____ .

After seeing the French Riviera, we drove to Italy and through the *(tungsten + iodine + neon)* _____ country to Pisa. From Pisa it was a short drive following the *(argon + nobelium)* _____ River to Florence and the *(boron + iridium + thorium + phosphorus + lanthanum + cerium)* _____ of Renaissance art. Our next stop was the Eternal City, Rome. We had to see the Coliseum, the *(vanadium + astatine + iodine + calcium + nitrogen)* _____ and the Pope. From Rome we drove *(sulfur + oxygen + uranium + thorium)* _____ along the Italian coastline to *(sodium + polonium + lithium)* _____ and Pompeii. Then we headed northeast *(sulfur + indium + cerium)* _____ we could not leave Italy without a gondola ride on the canals of Venice.

From sea level at Venice, we headed for *(vanadium + erbium + yttrium)* _____ high ground as we drove *(oxygen + vanadium + erbium)* _____ the *(aluminum + phosphorus + sulfur)* _____ to Switzerland. We had *(holmium + phosphorus + einsteinium)* _____ of skiing down the *(aluminum + phosphorus + iodine + neon)* _____ slopes and *(aluminum + sulfur + oxygen)* _____ of buying a *(fluorine + americium + oxygen +*

(continued)

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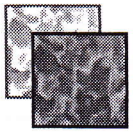
Name _____ Date _____



Activity 12: **An Elemental Trip Through Europe**
(continued)

uranium + sulfur) _____ *(sulfur + tungsten + iodine + sulfur + sulfur)* _____ *(tungsten + astatine + carbon + hydrogen)* _____ . However, there was not enough *(tin + oxygen + tungsten)* _____ for skiing, so we headed for Austria and the *(silicon + tellurium + sulfur)* _____ from the movie *The (sulfur + oxygen + uranium + neodymium)* _____ *of Music.*

From Vienna and Salzburg and beautiful waltzes, we went to Germany to see the *(calcium + sulfur + thallium + einsteinium)* _____ of the *(boron + lanthanum + carbon + potassium)* _____ Forest and *(helium + argon)* _____ polkas. We survived the autobahn and visited the Peace *(gallium + tellurium)* _____ in *(boron + erbium + lithium + nitrogen)* _____ .

From *(boron + erbium + lithium + nitrogen)* _____ we headed *(boron + actinium + potassium)* _____ toward *(fluorine + radium + nitrogen + cerium)* _____ to *(chromium + osmium + sulfur)* _____ the English Channel. We decided to *(chromium + oxygen + sulfur + sulfur)* _____ by ferry so we could see the *(tungsten + hydrogen + iodine + tellurium)* _____ *(chlorine + iodine + fluorine + fluorine + sulfur)* _____ of Dover. We had *(nickel + neon)* _____ days left to see *(arsenic)* _____ much *(oxygen + fluorine)* _____ England as possible. We, of course, saw Buckingham *(protactinium + lanthanum + cerium)* _____ and the guards *(tungsten + iodine + thorium)* _____ their tall fuzzy *(boron + lanthanum + carbon + potassium)* _____ hats and stern *(fluorine + actinium + einsteinium)* _____ .

We caught a *(neon + tungsten)* _____ *(phosphorus + lanthanum + yttrium)* _____ at Covent Gardens and a Shakespearean *(phosphorus + lanthanum + yttrium)* _____ at Stratford-on-Avon. We drove as *(fluorine + argon)* _____ north as Sherwood Forest and Nottingham to relive the *(fluorine + americium + oxygen + uranium + sulfur)* _____ tales of Robin Hood. Then *(sulfur + oxygen + uranium + thorium)* _____ and west to see Stonehenge on the Salisbury *(phosphorus + lanthanum + indium + sulfur)* _____ and the *(beryllium + actinium + helium + sulfur)* _____ at Bournemouth and *(sulfur + oxygen + uranium + thorium + americium + platinum + oxygen + nitrogen)* _____ .

(boron + yttrium) _____ then it *(tungsten + arsenic)* _____ time to return to London's Heathrow Airport for the *(phosphorus + lanthanum + neon)* _____ flight *(barium + carbon + potassium)* _____ to *(americium + erbium + iodine + calcium)* _____ . *(tungsten + hydrogen + astatine)* _____ an amazing *(vanadium + actinium + astatine + iodine + oxygen + nitrogen)* _____ ! We will *(neon + vanadium + erbium)* _____ forget our elemental trip through Europe.

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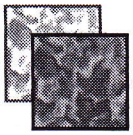

Activity 14: **Cooking with the Elements**

Directions: For each element combination in parentheses below, use the **symbols** for the elements to obtain a scrambled word. Then unscramble the letters to form the correct words. Write the symbols in the answer blank following each group of elements. This will help you complete each numbered paragraph.

> **Example:** *(boron, indium, oxygen, tantalum)* = BInOTa, which unscrambles to form the word OBTaIn.

1. For breakfast we *(yttrium + francium)* _____ eggs, *(cobalt + nitrogen + barium)* _____ and *(hydrogen + hydrogen + arsenic)* _____ *(oxygen + nitrogen + tungsten + bromine)* _____ potatoes, and toast *(astatine + tungsten + helium)* _____ or *(hydrogen + tellurium + tungsten + iodine)* _____ bread. Or, we can have *(nitrogen + calcium + einsteinium + protactinium + potassium)* _____ or waffles and sausage, or *(aluminum + cerium + rhenium)* _____ , such as *(radon + cobalt)* _____ *(lanthanum + potassium + fluorine + einsteinium)* _____ or *(nitrogen + iodine + silicon + radium)* _____ *(boron + nitrogen + radium)* _____ , with milk.

2. *(thorium + helium + aluminum + yttrium)* _____ *(potassium + actinium + sulfur + tin)* _____ would be fruits, such as *(sodium + sodium + barium + sulfur)* _____ , grapes, *(sulfur + iodine + tungsten + potassium + iodine)* _____ , apples, and oranges and different *(einsteinium + carbon + helium + einsteinium)* _____ and *(potassium + chromium + erbium + actinium + sulfur)* _____ . Of course, most of us would *(erbium + radium + thorium)* _____ have *(hydrogen + phosphorus + sulfur + carbon + iodine)* _____ , *(iodine + oxygen + cobalt + potassium + einsteinium)*_____ , or *(nitrogen + dysprosium + calcium)* _____ .

3. For drinks, we *(fluorine + phosphorus + rhenium + erbium)* _____ *(calcium + cobalt + lanthanum + cobalt)* _____ or another type of soda *(vanadium + erbium + oxygen)* _____ milk, juice or *(erbium + astatine + tungsten)* _____ .

4. Most people have fast food and *(selenium + uranium)* _____ the drive *(ruthenium + sulfur + thorium)* _____ for lunch. They usually have only half an hour and *(oxygen + carbon + selenium + holmium)* _____ *(carbon + tantalum + osmium)* _____ or hamburgers and French *(einsteinium + iodine + francium)* _____ . Sometimes they will be *(carbon + yttrium + lutetium + potassium)* _____ and have a salad, *(uranium + phosphorus + sulfur + oxygen)* _____ , sandwich, or *(neon + iodine + hydrogen + selenium + carbon)* _____ take-out. At *(erbium + oxygen + thorium)* _____ times, people, especially students, eat *(holmium + sulfur + carbon + sodium)* _____ or *(carbon + lithium + iodine + hydrogen)* _____ cheese *(iodine + francium + einsteinium)* _____ .

(continued)

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Name _____ Date _____

Activity 14: **Cooking with the Elements** *(continued)*

5. Dinners are the big meals. *(iodine + sulfur + thorium)* _____ is *(helium + tungsten + nitrogen)* _____ families *(thorium + gallium + erbium)* _____ together after a long day. Dinners usually consist of a main dish containing some type of meat. The meat can be *(neon + terbium + oxygen)* _____ , *(americium + hydrogen)* _____ , pork *(sulfur + phosphorus + carbon + holmium)* _____ , chicken, *(boron + barium + yttrium)* _____ *(carbon + barium + potassium)* _____ ribs, prime rib, or *(iodine + hydrogen + sulfur + fluorine)* _____ .

6. Of course, there is always some type of carbohydrate. *(iodine + thorium + sulfur)* _____ is usually a potato, which we can bake, mash, *(yttrium + francium)* _____ , scallop, or boil. For variety, there is also rice or *(tantalum + arsenic + phosphorus)* _____ .

7. There usually is a *(holmium + cerium + iodine + carbon)* _____ of vegetables. Some *(sulfur + carbon + iodine + holmium + cerium)* _____ are *(radon + cobalt)* _____ , peas, *(cobalt + lithium + oxygen + bromine + carbon)* _____ , beans, *(silver + arsenic + phosphorus + uranium + argon + sulfur)* _____ or squash.

8. One of my favorite *(sulfur + uranium + sulfur + oxygen + phosphorus)* _____ is *(tungsten + neon)* _____ England *(americium + chlorine)* _____ chowder. I *(gold + sulfur + tellurium)* _____ the *(nitrogen + barium + cobalt)* _____ and *(nitrogen + oxygen + nickel + oxygen + sulfur)* _____ first. Then I add *(astatine + tungsten + erbium)* _____ , *(sulfur + chlorine + americium)*_____ , celery, and *(iodine + sulfur + sulfur + phosphorus + cerium)* _____ such as *(yttrium + barium)* _____ leaf, thyme, and marjoram. The diced potatoes and *(rhenium + carbon + americium)* _____ are added about thirty minutes *(oxygen + rhenium + beryllium + fluorine)* _____ serving.

9. The best part is dessert. There are many different *(potassium + calcium + einsteinium)* _____ and *(iodine + einsteinium + phosphorus)* _____ . *(uranium + rubidium + rhodium + barium)* _____ looks like red celery, and is tart *(helium + tungsten + nitrogen)* _____ baked in *(phosphorus + einsteinium + iodine)* _____ . Another simple dessert is *(cerium + iodine)* _____ *(americium + carbon + rhenium)* _____ . *(iodine + thorium + sulfur)* _____ can be served with *(erbium + oxygen + thorium)* _____ desserts or *(yttrium + boron)* _____ itself, in a *(neon + cobalt)* _____ or a dish, *(iodine + thorium + tungsten)* _____ *(cobalt + tellurium + carbon + lanthanum + holmium)* _____ or *(yttrium + neodymium + calcium)* _____ toppings.

10. A fancy dessert is *(phosphorus + rhenium + carbon + einsteinium)* _____ with a *(neodymium + boron + radium + yttrium)* _____ sauce. Many *(neon + iodine + fluorine)* _____ restaurants will *(cerium + lanthanum)* _____ their desserts with *(nitrogen + boron + dysprosium + radium)* _____ to make a flaming dessert.

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