



**Feel free to post pictures and tag #AsmCincy with each find.**

## **American Sign Museum's SCAVENGER HUNT**

Hi! My name is Tod, and I'm the Founder of the American Sign Museum. It takes a lot of science to make a sign. Check out the below science-related facts and find examples of the in the Museum.

1. Aluminum is a great metal to make signs from because it is lightweight and easy to cut. What letter on the Letter Wall is made from aluminum?
2. The element gold will make you rich if you have lots of coins of it! And it can help make a sign made before the invention of electricity stand out. Find and name a sign that uses gold.
3. Glue chip glass is created by applying hot glue to glass. The transfer of heat from the glue to the glass causes the glass to fracture. Find and name two signs that have glue chip glass.
4. Neon is a noble gas that glows bright orange-red when electrified. Find and name a sign that uses neon.
5. Enameling is a process where glass and metal are fused together using high temperatures. The glass hardens in place and has a glossy look. Find and name a sign that is made of porcelain enamel.
6. Though these signs are called "neon," neon isn't the only gas used to create colors. The noble gas argon can create blues, yellows, greens, violets, and whites depending on how the sign maker coats the inside of the glass tube. How many "neon" signs using argon can you find?
7. One way to create plastic shapes is to create a vacuum mold. The sign maker would carve the shape they wanted out of wood to create the mold. Then, they would heat up plastic and place it on the mold. They would then quickly suck out the air with a vacuum. Because of the pressure from the vacuum, the plastic forms and hardens into the shape of the mold. What are the shape of the two molds in the Museum?
8. The element mercury is known as "liquid metal" and adding a few drops of it in with argon creates vibrant blues. Find and name a sign that might have mercury in it.
9. The element iron is a magnetic metal & rusts into a reddish color. Find and name a sign that is made of iron (hint: many of our signs were displayed outdoors and might have some rust visible).

# American Sign Museum's SCAVENGER HUNT ANSWER KEY

1. Aluminum is a great metal to make signs from because it is lightweight and easy to cut. What letter on the Letter Wall is made from aluminum? **K**
2. The element gold will make you rich if you have lots of coins of it! And it can help make a sign made before the invention of electricity stand out. Find and name a sign that uses gold.  
**MULTIPLE in PRE-ELECTRIC ERA**
3. Glue chip glass is created by applying hot glue to glass. The transfer of heat from the glue to the glass causes the glass to fracture. Find and name two signs that have glue chip glass.  
**CHAS. BRENEISER & SONS and BRENEISER**
4. Neon is a noble gas that glows bright orange-red when electrified. Find and name a sign that uses neon. **MULTIPLE IN NEON ERAS, MAIN STREET, and EVENTS SPACE**
5. Enameling is a process where glass and metal are fused together using high temperatures. The glass hardens in place and has a glossy look. Find and name a sign that is made of porcelain enamel.  
**MULTIPLE ON RIGHT SIDE IN EARLY NEON**
6. Though these signs are called “neon,” neon isn’t the only gas used to create colors. The noble gas argon can create blues, yellows, greens, violets, and whites depending on how the sign maker coats the inside of the glass tube. How many “neon” signs using argon can you find? **54**
7. One way to create plastic shapes is to create a vacuum mold. The sign maker would carve the shape they wanted out of wood to create the mold. Then, they would heat up plastic and place it on the mold. They would then quickly suck out the air with a vacuum. Because of the pressure from the vacuum, the plastic forms and hardens into the shape of the mold. What are the shape of the two molds in the Museum? **BOTTLE and “O”**
8. The element mercury is known as “liquid metal” and adding a few drops of it in with argon creates vibrant blues. Find and name a sign that might have mercury in it. **SHOE REPAIR, UNITED PENTECOSTAL CHURCH, WIZARDS, TRIVET**
9. The element iron is a magnetic metal & rusts into a reddish color. Find and name a sign that is made of iron (hint: many of our signs were displayed outdoors and might have some rust visible). **KONA LANES, McDONALD’S, HOWARD JOHNSON**