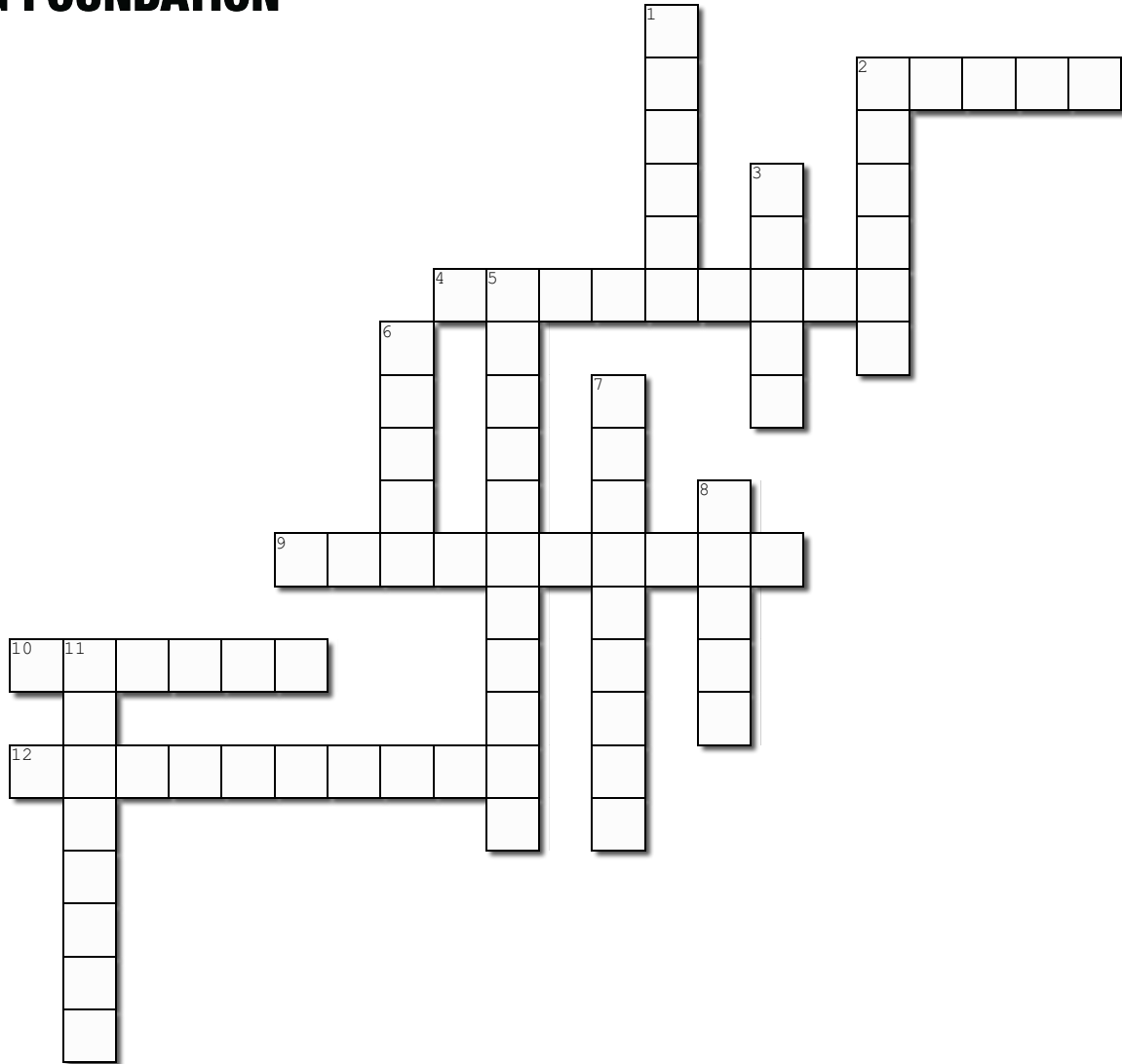


Fun Forging Crossword

Complete the crossword puzzle below

Name: _____

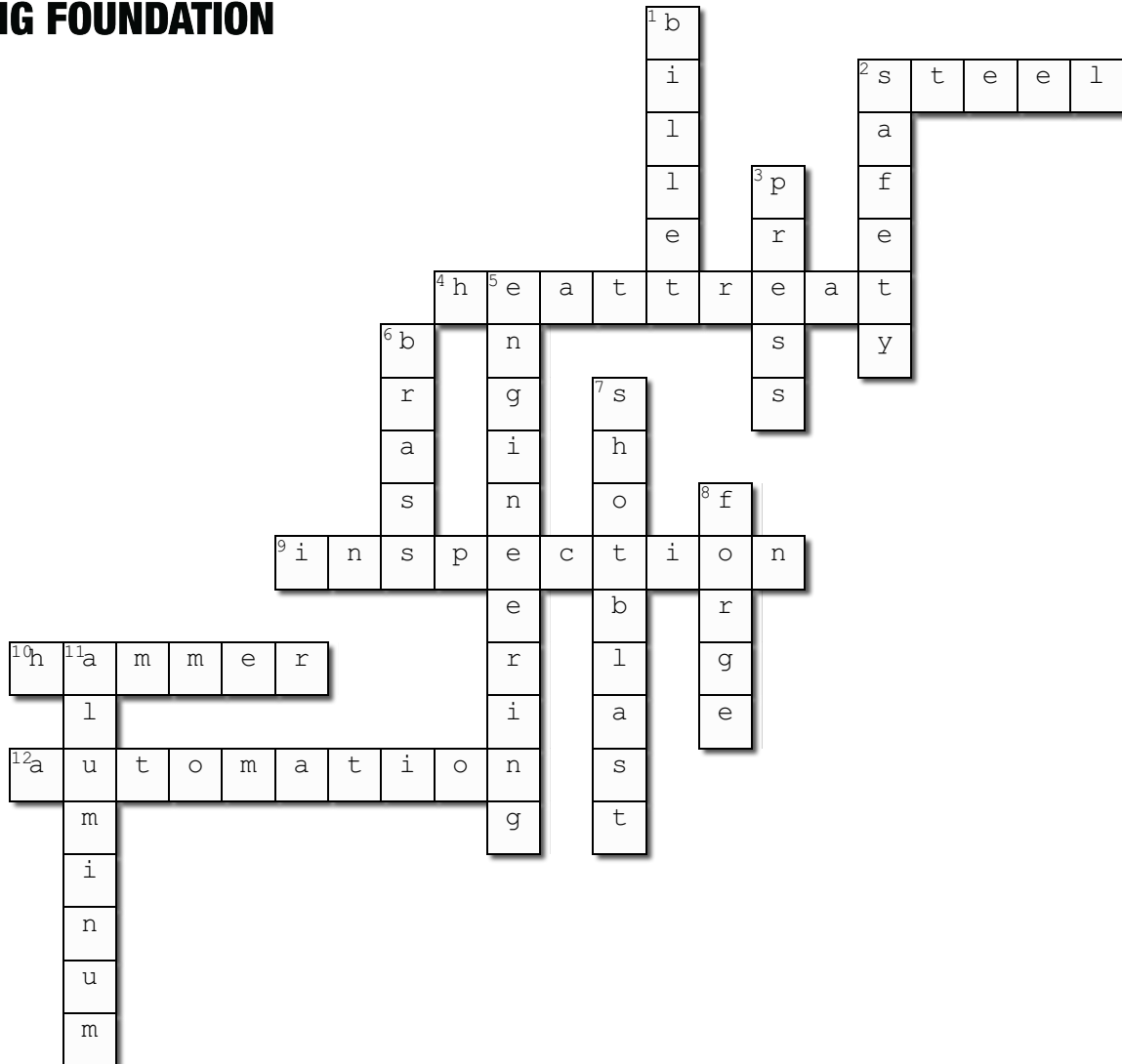


Across

2. A hard, strong, gray or bluish-gray metal. Example: a ship or almost anything requiring strength!
4. A sequence of controlled heating and cooling operations applied to solid metal to get desired properties. (two words)
9. A processed used to measure, test and examine the features of a product.
10. Used for forging pieces by hitting metal repeatedly to shape it.
12. The use of automatic or robotic equipment in a system of manufacturing or production process.

Down

1. Solid lengths of metal with square or circle cross-sections.
2. The condition of being protected from or unlikely to cause danger, risk or injury.
3. Machine that slowly applies pressure to metal to squeeze it into a new shape.
5. The application of science and math to solve problems and design and build machines, structures, and other items.
6. A reddish-yellow metal. Example: a trumpet.
7. A process of cleaning forgings with high air pressure or force at the surface of the forgings. (two words)
8. One of the oldest known metalworking processes where metal is heated and put under great pressure to make objects.
11. A light silvery-gray metal. Example: pop can.



Across

2. A hard, strong, gray or bluish-gray metal. Example: a ship or almost anything requiring strength! (**steel**)
4. A sequence of controlled heating and cooling operations applied to solid metal to get desired properties. (two words) (**heattreat**)
9. A processed used to measure, test and examine the features of a product. (**inspection**)
10. Used for forging pieces by hitting metal repeatedly to shape it. (**hammer**)
12. The use of automatic or robotic equipment in a system of manufacturing or production process. (**automation**)

Down

1. Solid lengths of metal with square or circle cross-sections. (**billet**)
2. The condition of being protected from or unlikely to cause danger, risk or injury. (**safety**)
3. Machine that slowly applies pressure to metal to squeeze it into a new shape. (**press**)
5. The application of science and math to solve problems and design and build machines, structures, and other items. (**engineering**)
6. A reddish-yellow metal. Example: a trumpet. (**brass**)
7. A process of cleaning forgings with high air pressure or force at the surface of the forgings. (two words) (**shotblast**)
8. One of the oldest known metalworking processes where metal is heated and put under great pressure to make objects. (**forge**)
11. A light silvery-gray metal. Example: pop can. (**aluminum**)