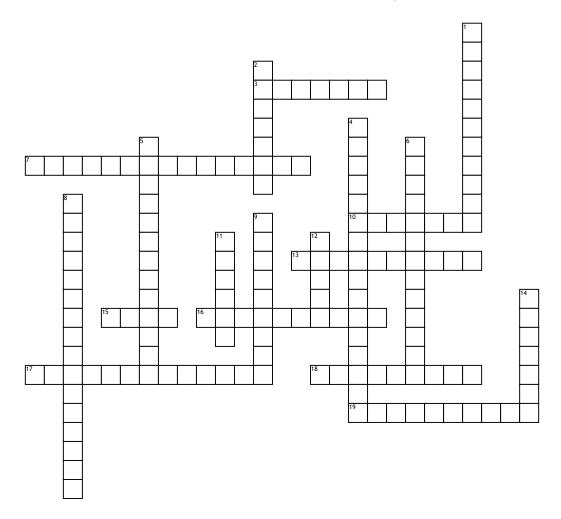
## Metals Creative Summary Crossword



## **Across**

- **3.** The most widely used deformation process
- 7. Highly resistant to corrosion in a variety of environments, especially the ambient atmosphere
- **10.** Mechanically working or deforming a single piece of a usually hot metal
- **13.** Liquid metal is forced into a mould under pressure and at a relatively high velocity and allowed to solidify with the pressure maintained
- **15.** Noble metal that some integrated circuit electrical contacts are made of
- **16.** Name of the group of metals that have extremely high melting temperatures

- **17.** Among the least expensive of all metallic materials
- 18. Element with density of 1.7 g/cm<sup>3</sup>
- **19.** forming operation used when deformation is achieved at a temperature above that at which recrystallisation occurs

## <u>Down</u>

- 1. Probably the most common casting method
- 2. The most common copper alloys
- **4.** An important characteristic of these materials, which is quantified by the tensile strength-specific gravity ratio
- **5.** Alloys in which iron is the prime constituent

- **6.** Alloys that are amenable to mechanical deformation
- **8.** Casting process that uses powdered metal compressed into a denser piece
- **9.** Generically a class of ferrous alloys with carbon contents above 2.14 wt%
- **11.** one of the principle alloying elements in stainless steels and one of the major constituents in the superalloys
- **12.** Number of noble metals on the periodic table
- **14.** Fabrication technique where two or more metal parts are joined to form one piece

## **Word Bank**

stainless steels	specific strength	Ferrous Alloys	Brasses	Sand casting
hot working	Powder Metallurgy	nickel	cast irons	Refractory
Forging	Gray cast irons	wrought alloys	gold	Magnesium
Rolling	Die casting	welding	eight	