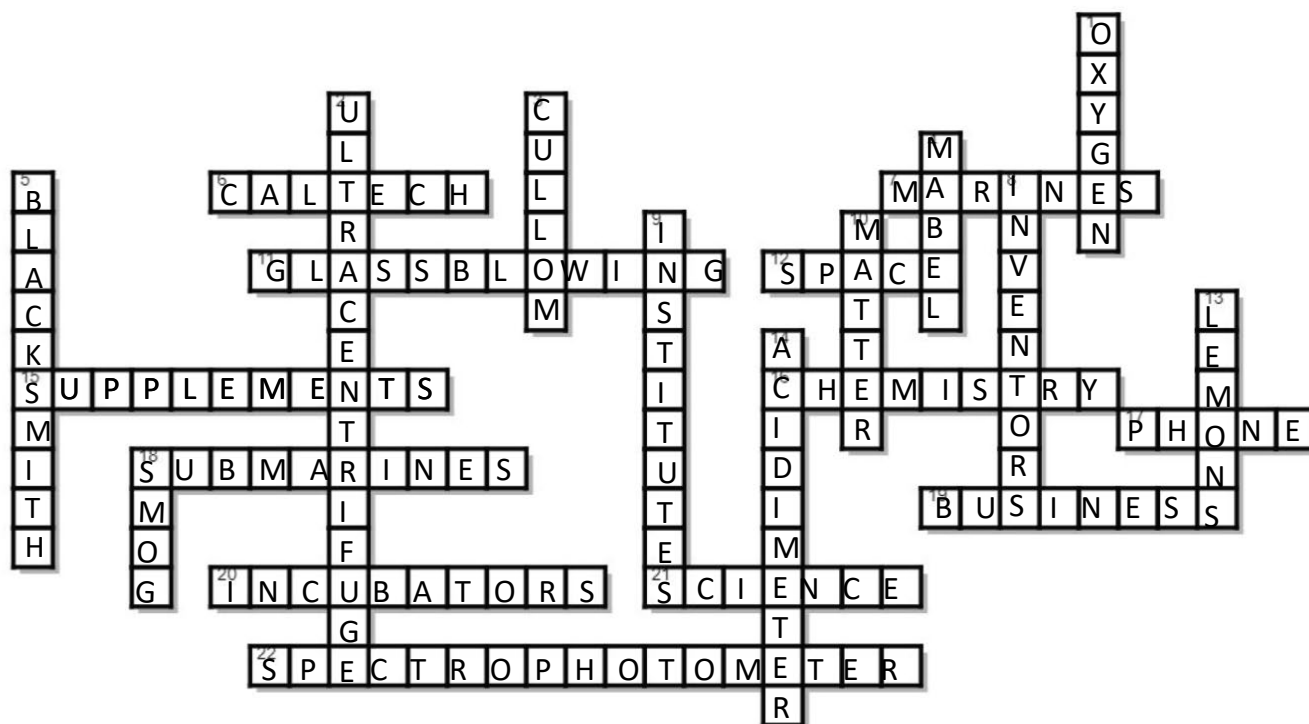


## REVOLUTIONARY TOOLS CROSSWORD PUZZLE



### ACROSS

- 6 University where Arnold earned his PhD in photochemistry and later became a professor
- 7 Branch of the military that 18 year old Arnold joined during WWI
- 11 Dr. Beckman taught a world-renown class on this skill
- 12 Oxygen sensors are used for high altitude flight including all of this type of exploration mission
- 15 Early use of the spectrophotometer measured the amount of Vitamin A in these
- 16 Subject of the book that sparked Arnold's lifelong curiosity
- 17 Type of systems that Dr. Beckman worked on quality control for while at Bell Labs in NYC
- 18 The oxygen analyzer helped these vessels stay submerged longer
- 19 Dr. Beckman left Caltech to pursue this kind of opportunity
- 20 To help prevent preemie blindness oxygen analyzers were used in these hospital devices
- 21 Dr. Arnold O. Beckman's Revolutionary Tools may spark your interest in a career in this field
- 22 Instrument that measures the interaction between light and materials

### DOWN

- 1 The only gas that reacts to a magnetic field
- 2 An instrument Dr. Beckman invested in that was used to prove the theory of DNA replication in cells
- 3 The rural Illinois town where Arnold O. Beckman was born in 1900
- 4 Name of Dr. Beckman's wife who also traveled across the country with him to sell pH meters
- 5 Profession of Dr. Beckman's father
- 8 Dr. Beckman was inducted into this Hall of Fame (like Alexander Bell and Thomas Edison)
- 9 Dr. and Mrs. Beckman used their fortune to start a foundation to support young scientists and establish five of these across the nation
- 10 Photochemistry is the study of how light interacts with this
- 13 Dr. Beckman's fraternity brother was interested in measuring the pH of this type of fruit
- 15 Another name for a pH meter
- 18 Dr. Beckman led a task force to understand causes of and find ways of improving this