ANSWER KEY



BECKNAN

Directions: Below you will find a set of terms and a list of clues. Based on what you learn during the Revolutionary Tools exhibit tour, match each term with its corresponding clue. The first one is completed for you as an example.

acidimeter	blacksmith	business	Caltech	chemistry	Cullom
glassblowing	incubators	institutes	Inventors	lemons	Mabel
Marines	matter	oxygen	phone	science	smog
space	spectrophotometer	submarines	supplements	ultracentrifug	e
1. <u>Cullom</u>	Clue: Rural Illinois town where Arnold O. Beckman was born in 1900				
2. <u>blacksmith</u>	Clue: Profession of Arnold's father				
3. <u>chemistry</u>	Clue: Subject of the book that sparked Arnold's lifelong curiosity				
4. <u>Marines</u>	Clue: Branch of the military that 18-year-old Arnold joined during WWI				
5. <u>Caltech</u>	Clue: University where Arnold earned his PhD in photochemistry and later became a professo				
6. <u>matter</u>	Clue: Photochemistry is the study of how light interacts with this				
7. <u>glassblowing</u>	Clue: Dr. Beckman taught a world-renowned class on this skill				
8. <u>phone</u>	Clue: Type of systems that Dr. Beckman worked on quality control for while at Bell Labs in NY				
9. <u>lemons</u>	Clue: Dr. Beckman's fraternity brother was interested in measuring the pH of this type of fruit				
10. <u>acidimeter</u>	Clue: Another name for a pH meter				
11. <u>business</u>	Clue: Dr. Beckman left Caltech to pursue this kind of opportunity				
12. <u>Mabel</u>	Clue: Name of Dr. Beckman's wife who also traveled cross-country with him to sell pH meters				
13. <u>oxygen</u>	Clue: The only gas that reacts to a magnetic field				
14. <u>submarines</u>	Clue: The oxygen analyzer helped these vessels stay submerged longer				
15. <u>incubators</u>	Clue: To help prevent preemie blindness oxygen analyzers were used in these hospital devices				
16. <u>space</u>	Clue: Oxygen sensors are used for high altitude flight including this type of exploration mission				
17. <u>spectrophotometer</u>	Clue: Instrument that measures the interaction between light and materials				
18. <u>supplements</u>	Clue: Early use of the spectrophotometer measured the amount of Vitamin A in these				
19. <u>ultracentrifuge</u>	Clue: An instrument Dr. Beckman invested in that was used to prove the theory of DNA replication in cells				
20. <u>Inventors</u>	Clue: Dr. Beckman as inducted into this Hall of Fame (like Alexander Bell and Thomas Edison)				
21. <u>smog</u>	Clue: Dr. Beckman led a task force to understand causes of and find ways of improving this				
22. <u>institutes</u>	Clue: Dr. and Mrs. Beckman used their fortune to start a foundation, support young scientists and establish five of these across the nation				
23. <u>science</u>	Clue: Dr. Beckman's Revolutionary Tools may spark your interest in a career in this field				