Dr. Arnold O. Beckman’s Revolutionary Tools
In-Tour Activity: Matching Terms

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.

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