TEACHER'S KEY

Pioneers of Food Science

Adams, Thomas .. Opened first chewing gum factory — 1869

Anderson, Alexander P. . . Developed stem injection "gun" for puffing cereals — puffed rice 1901

Appert, Nicolas . . Developed method of food preservation — canning; received award from Napoleon

Armour, Philip D. . . Meat packing industry — use of refrigeration and meat canning

Bacon, Sir Francis . . Experiment with effect of cold on decay of meat — 1626;

Ball, Charles Olin . . 1928 research was the standard used by USDA for calculating thermal processes in canning

Beach, Chester . . With Frederick Osius in Racine, WI invented small motor on AC/DC plug powered machines

Beal, William J. . . Hybrid corn development

Birdseye, Charles . . Process of quick freezing and developed special packaging for freezing retail portions

Borden, Gail Jr. . . Patented process for vacuum-evaporating milk mixed w/sugar under sterile conditions— "condensed milk"

Borlaug, Norman . . Agronomist — Nobel Peace Prize for efforts to overcome world hunger — developed wheat/rye hybrid

Brandenberger, Jacques . . Swiss chemist created cellophane — 1908

Brearley, Harry . . Stainless steel — 1914

Bunsen, R. W. . . Bunsen burner — 1855

Burbank, Luther . . Bred blight resistant potatoes (Idaho potato 1871); helped combat Irish potato famine

Cade, J. Robert . . Professor of medicine and physiology — invented Gatorade 1965

Carver, George Washington . . Discovered hundreds of uses for peanuts; improved output of southern farmers — 1912

Cooper, Peter . . Patent for manufacture of gelatin dessert - 1895 purchased by Pearl Wait and called Jell-o

Crum, George . . Native American/African American chef invented potato chip - 1853

Dewar, Sir James . . Scottish chemist invented the vacuum flask — 1892

Diemer, Walter . . Invented Double Bubble gum — 1928

Donkin, Bryan . . Set up first cannery to use tinned iron containers

Durand, Peter . . Patent to preserve foods in metal can — 1810

Farmer, Fannie . . Author of one of the first cookbooks — 1896

Fraze, Ermal . . Created self-opening can by putting first pull tabs on cans — designed 1959; patent 1963

Gaulin, Auguste . . Invented homogenization in France 1899 — patent 1902

Haas, Edward III ... Pez candies — 1927 Vienna, Austria

Haber, Fritz . . with Carl Bosch determined nitrogen needs of plants; 1918 Nobel Prize chemistry synthesizing ammonia

Hall, Charles Martin . . Invented method for inexpensive production of aluminum

Hawkins, Joseph . . Created grid iron for broiling food, early oven racks — 1845

Hellman, Richard . . 1912 built factory to produce mayonnaise in jars

Hershey, Milton . . Made milk chocolate and sold nationwide at a low price - 1905

Hormel, George A. . . Founded Hormel in Austin, MN in 1891 — invented SPAM in 1937

Kellogg, John Harvey . . Corn flakes cereal — 1884 patent

Keys, Ancel . . Developed K-rations during WWII — 1950s studied diets and health statistics

Kraft, James L. . . 1903 began wholesale cheese business — introduced processed cheese 1915

Lavoisier, Antoine . . Quantitative chemical experiments — system to describe structure of chemical compounds

Mars, Forrest E. . . Started candy company — developed Mars Bars and created M & M's

McCollum, Elmer V...Discovered vitamin A & D — pioneered study of vitamins and minerals

Mendel, Gregor . . Father of modern genetics; worked with peas 1856 — 1863 theories of heredity

Mitchell, William . . A research chemist for General Foods invented Pop Rocks; also created Cool Whip, Tang

Moore, Thomas... First electric refrigerator — 1803

Moore, Hugh... With Lawrence Luellen invented disposable Dixie cups — 1907; prevented spread of germs

Pasteur, Louis ... French chemist developed process of pasteurization

Peebles, David D. . . Inventor of instant non-fat dry milk products — 1950s

Pemberton, John S. . . Atlanta, GA pharmacist invented Coca-Cola — 1886

- Perkins, Edwin . . Nebraska chemist invented Kool Aid 1927
- Plunkett, Roy J. . . While working for DuPont discovered Teflon 1949
- Poplawski, Stephen .. With Fred Waring as financial backer invented the blender 1922
 - Post, Charles W. . . Founded cereal company in 1895
 - Potrykus, Ingo... Developed genetically modified food called golden rice 1999
 - Richards, Ellen . . Founder of home economics first woman to be admitted to MIT; worked on air, water, & food quality
- Schlumbohm, Dr. Peter . . Invented coffeemaker patent 1941
- Spencer, Percy Le Baron . . As an engineer for Raytheon Corporation invented the microwave oven 1946
 - Steenbock, Harry . . Demonstrated irradiation by UV light increased vitamin D content of food 1924
 - Stillwell, Charles . . Inventor of paper bag machine for flat bottoms and pleated sides 1883
 - Strite, Charles . . Mechanic at a plant in Stillwater, MN frustrated by burnt toast designed pop up toaster patent 1921
 - Sullivan, Thomas . . First tea bag invented 1904 in New York, NY
 - Swanson, A.C. . . Frozen food introduced TV dinner in 1952
 - Tupper, Earl ... Tupper seal and Tupperware late 1940s
 - Van Wormer, John . . Waxed cardboard milk carton 1915
 - Von Liebig, Justus . . Father of the fertilizer industry agricultural chemistry studied effect of individual nutrients on crops
 - Wiley, Dr. Harvey . . Chief chemist of USDA Pure Food and Drug Act 1906
 - Wiley, Ralph . . Discovered polyvinylidene chloride at Dow Chemicals; Saran Wrap — 1933
 - Williams, Robert R. . . Process for obtaining vitamins; helped fight malnutrition and vitamin deficiency diseases
 - Wyeth, Nathaniel .. Received patent for PET beverage bottles to hold carbonated beverages plastic soda bottle