

ASK The Scientist

If you have a question for the scientists, mail it to the New York Science Association, The Castle, Syracuse, N. Y. The Science Board of Syracuse University's Radio Workshop will answer in those columns each week those questions considered most timely and interesting.

Question 1.—What does a chipmunk do in the winter time?

Answer.—He hibernates. Hibernation is a sort of sleep. In the case of the chipmunk it lasts from November to about April or May. The chipmunk does not wake up for food. If he did and was unable to find it, he probably would starve or die.

Question 2.—Are evergreen trees always green.

Answer.—No, evergreens are not always green. The larches or tamarisks and the Southern cypress are examples in the United States of

evergreens which are not always green. Generally, evergreens are always green both winter and summer. The two trees mentioned drop their leaves in the fall as the oaks and other deciduous trees do.

The public generally thinks of evergreen trees as possessing green needles. As a matter of fact, these are leaves of a different shape. They simply do not drop every year but they drop every two or three years or at odd intervals.—Prof. Nelson Brown, forester.

Question 3.—What causes earthquakes?

Answer.—Earthquakes are due to some disturbance in the earth's crust, a disturbance which causes a break or breaks along a "line of fault" or fault plane, and a certain amount of displacement along it varying from a few inches to many feet. The cause of these jars or disturbances is some internal change or pressure.

Volcanoes which are pouring out molten lava cause local quakes but earthquakes occur frequently without any volcanic activity whatsoever.

There are certain known belts of earthquakes. One of them follows the east shore of the Pacific Ocean all the way from Cape Horn down in southern South America, up to the Andes, Central America, and on to Alaska.

Another belt is around the Caribbean sea and still another is around the west shore of the Pacific Ocean thru the Philippines and Japan. There are some others, also, that are known.

We are not very likely to have an earthquake in northeastern North America because the rocks here are

old, solid and stable; and we do not know of any active fault planes throughout the whole northeastern part of the country.—Dr. Sidman Foote, geographer.

Question 4.—Is the so-called "Tree of Heaven" or alantus tree a good one to plant in Central New York?

Answer.—No. Altho it is a very rapidly growing tree and it offers quick shade and is frequently found in the backyards of many homes, it is easily broken in wind and sleet storms and generally emits an unpleasant odor. The wood is very soft and the tree is not nearly as good to plant for shade or ornamental purposes as many other varieties.—Prof. Brown.

Question 5.—What are the most durable native trees used for fence posts, grape stakes and similar purposes, now that the chestnut has gone?

Answer.—Northern white cedar or arbor vitae is the most commonly found durable tree particularly in northern New York and many hundreds of thousands of fence posts of this species are used every year. Larch also known as tamarack and hackmatack also makes excellent and durable fence posts, but there is very little of it even in the Adirondacks where it is occasionally found.

Other species used are oak and occasionally catalpa, black locust and European larch. The latter as well as catalpa and black locust have been planted to some extent for growing fence posts and stakes in New York.—Prof. Brown.

Question 6.—Is being subjected

SAMPLE

DIRECTIONS FOR VOTING ON THE VOTING MACHINE

Swing the handle of the Curtain Lever (overhead) around as far as it will go to the right. This will close the curtain and unlock the machine for voters.

At the left end of the machine (in column 1) you will find the names of the candidates for President and Vice-President. Turn down a pointer for each office AND LEAVE THEM DOWN.

Keep on in the same manner to the end of the ticket, taking care to turn down a pointer for every office AND LEAVE THEM DOWN.

After arranging your ticket leaving the pointers DOWN over the names of the candidates you wish to vote for swing the handle of the Lever to the left as far as it will go, and leave it there. This will

The Vote Moving the Red Handle to the Right

The Curtain Closed The Voter Inside Voting



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51 Leland H. Shish	502 Frank Benjamin Gordon	1002 Raymond Howard Winchel	1502 Henry Bruce Smi
52 Bernard Churchitt Panten	503 Edward Warten Pangburn	1003 Alton Lewis Lounsberry	1503 Claude Edith Le
53 Clarence P. Gauz	504 Gerald Clarence Merr	1004 Ralph Mandrill Hillis	1504 Robert Alphonse
54 Jackson Custer Braniff	505 Robert Arthur Lehman	1005 Bernard Francis Jones	1505 Walter Joseph Be
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56 Harold Judson Monahan	507 Charles Phillip McGibne	1007 Raybol Herman Rocke	1507 Mark Woodworth
57 Lord Donald Grames	508 Charles Waldemar Lundt	1008 Paul Cassius Congdon	1508 Elwin Eugene W
58 Francis Leo Griswold	509 John Percival Boyd	1009 Charles Ross Osgood	1509 William Francis
59 Charles Russell McCarthy	510 Herbert Leroy Woodard	1010 Herbert Alexander Ferry	1510 Area Order No. 40
60 Bruce Kimble Cartwright	511 Clifford Nelson Childs	1011 Albert William Lounsb	1511 Ernest Wilford C
61 George Dennis Sayer	512 George Jason Brunel	1012 Virgil Benjamin Hewit	1512 Richard Charles L
62 Orville Lester Knox	513 Francis Gilbert Barcoe	1013 Richard Paul Willie	1513 Harold Charles
63 George Edward Case	514 Norman Albert Grava	1014 Albert William Scot	1514 Clayton E. A
64 Elmer Augustus Brownell	515 Charles Henry Conklin	1015 Richard Owen Clark	1515 Richard Nicholas
65 Raymond Benjamin Eppen	516 Herschel Claude Sulliv	1016 Lynn Newton Chalk	1516 Newton Millwar
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71 George Edward Case	522 Donald Foster	1022 James James Scurage	1522 Samuel Willard
72 Frank B. Pelton	523 John Kinard Amidon	1023 Kenneth Rhomane Leach	1523 Milton Lewis E
73 Murr E. Metcalf	524 Franklin Abraham Skille	1024 Albert William Scot	1524 Clayton E. A
74 Raymond August Fitzrick	525 Lloyd Merritt Jackson	1025 Ronald Rhomane Leach	1525 Carlton Forsyth
75 William Eugene Coon	526 Morris Harold Graham	1026 Leland Earl Torrey	1526 Dallas Leroy
76 Frank Edmond Ball	527 Donald John Edwards	1027 Felix Kendrick Lippman	1527 Edward Eugene W
77 William Sackett Clark	528 Leighton F. Koehler	1028 Jasper Eugene Frazer	1528 Leeman Charles
78 Roland Parker Schiefer, Jr.	529 Henry Dannehm	1029 Emmet Leland Phillis	1529 Arthur Lucian
79 Harold Ernest Almon	530 Bernard Everett Nevil	1030 Lyman Edward Smith	1530 Gordon Elie Hil
80 Norman Paul Pedrow	531 Harold August Weidner	1031 Francis Leon Murray	1531 Roscoe Nelson
81 Ward Edgar Jacoby	532 George N. Hubbell	1032 Harold Herman Simpson	1532 Willard Roger O
82 Lloyd Earl Shay	533 William O. Ogwood	1033 Louis Otto Arnold	1533 Francis Truman
83 Raymond Chester Emrick	534 Edward Clayton Deyo	1034 Wesley Leroy Grossman	1534 Herman Carl Bal
84 Mitchell William Hall	535 Albert Leroy Stocum	1035 Thomas T. Fisher	1535 Walter Joseph P
85 Gerald David Lee	536 Albert Oliver Atkinson	1036 James Corwin McAndrew	1536 Archibald Willis
86 Edward Aris Fyfe	537 James Eugene Curtis	1037 Harry Devere Graves	1537 Richard Thomas
87 Elroy Albertus Green	538 Carl Harold Poes	1038 Lawrence Duane Hastings	1538 Jack Alexander
88 Ernest Ed. Polmatier, Jr.	539 Clarence Edward Carson	1039 Walter Fred Woodin	1539 Donald Lewis W
89 Paul Henry DeLano	540 Basil Edward Guild	1040 William Earl Mangason	1540 Edward Thomas
90 Howard Edward Austin	541 Frank William Cole	1041 William Dennis Dorney	1541 Edward Donald L
91 William Burton Chapel	542 Frank Harlan Macaulay	1042 Laurence R. Goodridge	1542 Arthur Norbert
92 Wesley Edgar King	543 William Peter Tubertus	1043 Marshall Christian Wadman	1543 Edward Lyric A
93 Vaughn Alanzo Payne	544 Leon Frederick Perry	1044 William Melvin Wildman	1544 Stephen Antho
94 Robert Joseph Sutton	545 Leon Howard Hazzard	1045 Leo Ellis Fritchard	1545 James P. Blac
95 Raymond Calvin Ritter	546 Charles Humphrey Stevens	1046 Frank Downer Henderson	1546 George Clifton G
96 Kenneth Eugene Birby	547 George Gould Holdridge	1047 Raymond Llewellyn Dorret	1547 Martin DeYoe
97 George Riley Cadden	548 Edward Lee Brown	1048 Francis Joyner	1548 George Clifton G
98 Jason La Grand Hawks	549 Lyle Edward Dyer	1049 Raymond Frederick Marsh	1549 Martin DeYoe
99 Kenneth George Bailey	550 Burton Eugene Wells	1050 William Lerna Manning	1550 Charles Luman
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103 Harold James Slocum	554 Conrad Franklin Church	1054 Robert Vernon Smith	1554 Charles Edwar
104 Walter Oliver Tomlinson	555 Theodore Lawrence Young	1055 Elsworth Calvin Davis	1555 Donald Wright
105 Robert Joseph Sutton	556 George Wilson Briggs	1056 Lyle Reyer Norton	1556 Robert Grant
106 Raymond Calvin Ritter	557 Harold Lee Labor	1057 Harry Devere Graves	1557 Charles Edwar
107 Kenneth Eugene Birby	558 Byron Arthur Dolph	1058 Charles Andrew Winans	1558 Leonard Edwar
108 George Riley Cadden	559 Earny Robert Cochran	1059 Leon Windsor	1559 Clarence Fred
109 Jason La Grand Hawks	560 Elmer Charles W. Fanton	1060 Lawrence Vernon Kalkoff	1560 Raymond James O'Hara
110 Kenneth George Bailey	561 Richard Vern Harder	1061 Don Olin Cummings	1561 Frank Lewis Bah
111 William Harlan Best	562 Ronald Clark	1062 Ralph Levere Grege	1562 Guy Spruce
112 Morris Rob. Quackenbush	563 Elmer Charles W. Fanton	1063 Ralph Fredrick Potter	1563 Harold John
113 Roy Marcel Gardner	564 Richard Vern Harder	1064 Frank Leon Dunchie	1564 Benjamin Rue
114 Harold James Slocum	565 Elmer Charles W. Fanton	1065 Kenneth Earl Chalker	1565 Henry Lee Siz
115 Walter Oliver Tomlinson	566 Elmer Charles W. Fanton	1066 Rupert Frederick Green	1566 William F. M
116 Robert Joseph Sutton	567 Bert Elie Swarthout	1067 John DeForest Clark	1567 Thomas J. Rile
117 Raymond Calvin Ritter	568 Theodore Robert Cochran	1068 Lawrence Clarence	1568 Harold Ernest
118 Kenneth Eugene Birby	569 Howard Crandall Seager	1069 Lawrence Clyde Clark	1569 John Henry
119 George Riley Cadden	570 John Thomas Gorman	1070 Albert Philatus Cartwright	1570 Edward Charle
120 Jason La Grand Hawks	571 John Thomas Gorman	1071 Robert C. Peller	1571 Arthur DeWitt
121 Kenneth George Bailey	572 George Willis Sharp	1072 Walter Delworth Weinrich	1572 John DeForest
122 William Harlan Best	573 Francis Ambrose Carpenter	1073 Robert C. Peller	1573 John Henry
123 Morris Rob. Quackenbush	574 Edward Barrus Hall	1074 Victor Harold Graves	1574 Edward Charle
124 Roy Marcel Gardner	575 James Henry Mraham	1075 Arthur Ronald Dannehm	1575 Joseph Theodore
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127 Robert Joseph Sutton	578 John Arlington Andrews	1078 Area Order Nos. 351 to 400	1578 Clifford DeWitt
128 Raymond Calvin Ritter	579 John Zwald	1079 Robert Francis Lynch	1579 Clifford DeWitt
129 Kenneth Eugene Birby	580 Francis Joseph McQuaney	1080 Franklin Charles Benjamin	1580 Charles W. I
130 George Riley Cadden	581 Elmer Charles W. Fanton	1081 Alfred Carl P	1581 Merlyn Francis
131 Jason La Grand Hawks	582 Elmer Charles W. Fanton	1082 Otto Henry Peters	1582 Susan J. John
132 Kenneth George Bailey	583 Elmer Charles W. Fanton	1083 Paul Phillip Donnelly	1583 James Gran
133 William Harlan Best	584 Elmer Charles W. Fanton	1084 Clifford Clement Bluen	1584 Albert Seth
134 Morris Rob. Quackenbush	585 Elmer Charles W. Fanton	1085 Clifford Howard Weinman	1585 James Elias
135 Roy Marcel Gardner	586 Elmer Charles W. Fanton	1086 Marvin James Griswold	1586 James Elias
136 Harold James Slocum	587 Elmer Charles W. Fanton	1087 Roy Manly Fitzer	1587 Leelle Stillman
137 Walter Oliver Tomlinson	588 Elmer Charles W. Fanton	1088 Howard Jefferson Brewster	1588 Harold Ernest
138 Robert Joseph Sutton	589 Elmer Charles W. Fanton	1089 Joseph Charles Park, Jr.	1589 Harold Ernest
139 Raymond Calvin Ritter	590 Elmer Charles W. Fanton	1090 Volney Herbert DeGraft	1590 Harold Ernest
140 Kenneth Eugene Birby	591 Elmer Charles W. Fanton	1091 William Horatio Neal	1591 Harold Ernest
141 George Riley Cadden	592 Elmer Charles W. Fanton	1092 Rudolph Childs	1592 Harold Ernest
142 Jason La Grand Hawks	593 Elmer Charles W. Fanton	1093 Carl Erast Ruger	1593 Harold Ernest
143 Kenneth George Bailey	594 Elmer Charles W. Fanton	1094 Carl Erast Ruger	1594 Harold Ernest
144 William Harlan Best	595 Elmer Charles W. Fanton	1095 Carl Erast Ruger	1595 Harold Ernest
145 Morris Rob. Quackenbush	596 Elmer Charles W. Fanton	1096 Carl Erast Ruger	1596 Harold Ernest
146 Roy Marcel Gardner	597 Elmer Charles W. Fanton	1097 Carl Erast Ruger	1597 Harold Ernest
147 Harold James Slocum	598 Elmer Charles W. Fanton	1098 Carl Erast Ruger	1598 Harold Ernest
148 Walter Oliver Tomlinson	599 Elmer Charles W. Fanton	1099 Carl Erast Ruger	1599 Harold Ernest
149 Robert Joseph Sutton	600 Elmer Charles W. Fanton	1100 Carl Erast Ruger	1600 Harold Ernest