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What Makes Fall Colors?

source of the carbohydrates needed for the tree's growth and development.

In the food-making process, chlorophylls break down and are continually "used-up". However, the tree replenishes them all through the growing season. As long as replacement remains high, the leaves stay green. As fall approaches, influences inside and outside of the plant cause the chlorophylls to be replaced at a slower rate. Shorter days cause a layer of cork cells to form at the base of each leaf, gradually closing off the flow of water and minerals into the leaf. This is the location where the leaf will eventually separate from the tree and fall to the ground. As the supply of chlorophylls dwindles, other pigments that may have been present in the leaf all along are slowly unmasked and begin to show through.

Unmasked pigments include the carotenoids, which result in brilliant yellows and oranges. Some trees where carotenoids are conspicuous include ash, maple, aspen, birch, black cherry, cottonwood, tulip tree, and sycamore.

Another group of pigments, called anthocyanins, are responsible for the reds,

purples, and blended combinations of these colors. Unlike the carotenoids, these pigments have not been present in the leaf all season. Instead, they develop in late summer in the sap of the leaf cells. Their formation depends on the breakdown of sugars in the presence of bright light while the level of phosphate in the leaf is reduced. Phosphate is at a high level during the growing season, but in autumn it moves out of the leaf and into the stem of the plant. When this hap-

pens, the sugar breakdown process changes, leading to the production of anthocyanin pigments. The brighter the light, the more anthocyanins are produced and the more brilliant the color. The brightest colors develop when autumn days are sunny and cool, along with nights that are chilly but not freezing.

Educational programs of the Cooperative Extension Service serve all people regardless of race, color, sex, religion, disability or national origin.

Farm News

Tuesday, October 6th @ 6pm

Fall Beef Producers Meeting

There will be a fall beef producers meeting Tuesday, October 6th, 6:00 p.m., at the Estill County Fair Barn. The meeting focus is hay quality and mineral supplementation of cattle.

A catered meal will be provided. Please pre-register by calling 723-4557 no later than October 2nd. Meeting sponsored by the Estill County Cattlemen's Association, Singer Farm & Feed Supply of Irvine, and Estill County Cooperative Extension.

There will be door prize drawing and free UK Extension publications available as well. Come join us!

Apply by Monday, October 12th

Groundskeeper/Tenant Wanted

The Estill County Conservation District is in need of a groundskeeper/tenant for the house and property located at 1675 Little Rock Road, Irvine, KY 40336. The District requests that anyone interested in the job and living quarters to please submit a letter of request and references.

The property includes a home with three bedrooms, great room, dining area, 1 1/2 baths and kitchen. The occupants will be required to incur the cost of obtaining all utilities and upkeep of the property. In addition to the house, the occupants will be required to maintain the upkeep of the surrounding property known as the Lily Mountain Nature Preserve. Attendance will be required to a monthly board meeting to submit a written and oral report updating the activities and accomplishments on the property.

Letter of request and reference list can be mailed or delivered in person to the Estill County Conservation District 1505 Richmond Road, Irvine, KY 40336. Documents must be received at the District by Monday, October 12, 2015.

If you have additional questions, please contact the Conservation District at 606-723-5104.

NOTE: All requests must be submitted in writing. ECCD is an Equal Opportunity Agency

Stickeler's Puzzle

STICKELERS [sic] by Terry Stickels

I recently returned from a trip. Today is Wednesday. I returned three days before the day after the day before tomorrow.

On what day did I return?

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Stickeler's Answer on Page 11

BROWN FARM MEATS

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 - Ham Steak . . . \$3⁵⁰/Lb.
 - Ham Cutlets . . . \$3⁵⁰/Lb. (Similar to cube steak, only ham)
 - Bacon . . . \$4²⁵/Lb.
 - Jowl Bacon . . . \$3⁵⁰/Lb.
 - Pork Tenderloin . . . \$4⁵⁰/Lb.
 - Pork Chops . . . \$4⁰⁰/Lb.
 - Spare Ribs . . . \$3⁵⁰/Lb.
 - Country Style Ribs . . . \$3⁵⁰/Lb.
 - Baby Back Pork Ribs . . . \$3⁵⁰/Lb.
 - Pork Burgers . . . \$4⁰⁰/Lb.
 - (Ground, pattied pork with no seasoning)
 - Bratwursts . . . \$4⁰⁰/Lb.
- Bundle Packages**
- 1/4 Processed Hog . . . \$115⁰⁰
 - 1/2 Processed Hog . . . \$210⁰⁰
 - Whole Processed Hog . . . \$440⁰⁰

Wishing Well®

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 5 | 2 | 4 | 3 | 5 | 8 | 5 | 2 | 7 | 2 | 4 | 8 |
| M | A | O | A | Y | S | W | W | P | N | E | N | I |
| 2 | 3 | 4 | 6 | 8 | 2 | 6 | 3 | 4 | 3 | 6 | 4 | 8 |
| N | O | E | O | S | Y | R | U | X | A | E | C | H |
| 6 | 2 | 8 | 7 | 6 | 5 | 2 | 5 | 2 | 5 | 2 | 6 | 5 |
| G | O | S | O | I | E | U | E | R | T | M | V | L |
| 3 | 2 | 3 | 2 | 4 | 7 | 2 | 7 | 8 | 6 | 5 | 6 | 3 |
| R | I | E | N | I | M | D | E | O | E | I | A | A |
| 6 | 7 | 6 | 5 | 8 | 5 | 4 | 6 | 8 | 6 | 3 | 6 | 4 |
| N | N | D | F | M | E | T | T | E | A | D | K | I |
| 7 | 8 | 6 | 4 | 7 | 3 | 8 | 4 | 7 | 4 | 3 | 8 | 7 |
| T | O | E | N | A | O | N | G | L | D | R | E | B |
| 8 | 4 | 7 | 3 | 8 | 4 | 3 | 7 | 8 | 7 | 8 | 7 | 7 |
| W | A | L | E | E | Y | D | O | L | C | L | K | S |

HERE IS A PLEASANT LITTLE GAME that will give you a message every day. It's a numerical puzzle designed to spell out your fortune. Count the letters in your first name. If the number of letters is 6 or more, subtract 4. If the number is less than 6, add 3. The result is your key number. Start at the upper left-hand corner and check one of your key numbers, left to right. Then read the message the letters under the checked figures give you.

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CryptoQuip

This is a simple substitution cipher in which each letter used stands for another. If you think that X equals O, it will equal O throughout the puzzle. Solution is accomplished by trial and error.

Clue: X equals T

FA PUT XSUY M CMRRFY, SFKD
 FY TS, MHW AZNN, FY KUTZW RN
 XMFV YGMY PUT YMDN YGN
 RTHHP MHW CTH.

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CryptoQuote

AXYDLBAAXR is LONGFELLOW
 One letter stands for another. In this sample, A is used for the three L's, X for the two O's, etc. Single letters, apostrophes, the length and formation of the words are all hints. Each week the code letters are different.

DNS AJP'H RSMV JPDNPU
 SR HVU OJQQUC SPOUMM
 VUKM IKOOKPB HN
 AOKZF VKZMUOW.
 - JPQCUI AJCPUBKU

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Puzzle Answers

September 30, 2015

Puzzles4Kids
 Answer
 Why did the gardener quit his job?
 Because his celery was not high enough.

FEAR & KNOT
 answer

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|--|
| W | I | T | | | | | | | | | | |
| O | S | | | | | | | | | | | |
| L | A | | | | | | | | | | | |
| V | E | R | S | E | | S | U | M | | | | |
| E | R | A | N | D | V | I | E | W | | | | |
| S | H | A | D | | | A | R | | | | | |
| | | | | | | A | R | M | P | I | T | |
| | | | | | | T | | I | | | H | |
| A | H | E | A | D | | | | | | | | |

Letter Box
 Solution

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| V | G | R | D | W | E | N | A | I |
| I | A | E | R | G | N | W | V | D |
| N | D | W | A | V | I | G | R | E |
| W | I | V | G | E | R | D | N | A |
| G | R | A | N | D | V | I | E | W |
| D | E | N | W | I | A | R | G | V |
| R | W | D | E | A | G | V | I | N |
| A | N | I | V | R | D | E | W | G |
| E | V | G | I | N | W | A | D | R |

Even Exchange
 answers

- Marlin, Merlin
- Masks, Masts
- Plant, Plank
- Dancer, Dander
- Ashen, Aspen
- Merry, Marry
- Greet, Green
- Boris, Doris
- Candle, Handle
- Pester, Poster

LAKE — : LARGE LAKES

Weekly SUDOKU
 Answer

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | 2 | 9 | 6 | 8 | 1 | 7 | 4 | 5 |
| 8 | 7 | 1 | 5 | 2 | 4 | 3 | 6 | 9 |
| 6 | 4 | 5 | 9 | 3 | 7 | 1 | 2 | 8 |
| 1 | 9 | 6 | 4 | 7 | 5 | 2 | 8 | 3 |
| 5 | 3 | 2 | 1 | 9 | 8 | 4 | 7 | 6 |
| 4 | 8 | 7 | 2 | 6 | 3 | 9 | 5 | 1 |
| 7 | 1 | 4 | 3 | 5 | 6 | 8 | 9 | 2 |
| 9 | 6 | 3 | 8 | 4 | 2 | 5 | 1 | 7 |
| 2 | 5 | 8 | 7 | 1 | 9 | 6 | 3 | 4 |

CryptoQuote
 answer
 You can't push anyone up the ladder unless he is willing to climb himself.
 - Andrew Carnegie

King Crossword
 Answers
 Solution time: 27 mins.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O | P | S | | C | A | B | | S | L | O | S | H | |
| P | E | A | | A | P | E | | P | A | R | K | A | |
| T | R | Y | | V | E | R | D | I | G | R | I | S | |
| I | T | S | | E | X | E | R | T | | | | | |
| C | H | O | W | | E | T | A | | L | U | B | E | |
| | | | | A | M | S | | G | R | I | S | L | E |
| A | I | S | L | E | | | | A | G | A | T | E | |
| G | R | I | S | T | S | M | P | | | | | | |
| E | A | C | H | | L | O | O | | T | R | E | Y | |
| | | | | B | U | G | L | E | | E | M | U | |
| A | M | B | E | R | G | R | I | S | | C | A | M | |
| G | A | U | G | E | | E | N | S | | A | I | M | |
| O | X | B | O | W | | S | E | E | | P | L | Y | |

Bible Trivia Answers
 Casey's trivia book "Know It? ... or Not?" is available from BearManorMedia.com

ANSWERS (1) 10; (2) 12; (3) 5; (4) 3; (5) 6; (6) 9; (7) 4; (8) 1; (9) 2; (10) 8; (11) 7; (12) 5; (13) 3; (14) 6; (15) 9; (16) 4; (17) 1; (18) 2; (19) 8; (20) 3; (21) 7; (22) 5; (23) 2; (24) 1; (25) 9; (26) 8; (27) 4; (28) 7; (29) 6; (30) 3; (31) 5; (32) 1; (33) 9; (34) 2; (35) 7; (36) 8; (37) 4; (38) 2; (39) 5; (40) 1; (41) 7; (42) 2; (43) 5; (44) 8; (45) 7; (46) 1; (47) 9; (48) 6; (49) 3; (50) 4.

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