

Apple Escape Box

Topic: Millie Appleseed Needs To Save the Family Farm

Learning objectives:

Students will learn how to navigate an Ag Mag, learn how apples came to America, become familiar with how apples are really grown in the current market, the state apple, parts of an apple, and how to use technology and problem-solving tasks.

Materials List:

9 fake apples with codes: C1, O2, M7, M7, O2, D10, I9, T8, Y3 (use stickers)

Code Breaker sheet

Key to outer lock of box

Commodity poster

Apple Ag Mag

Mildred Appleseed story

Deed locked inside inner box

Black light markers (at least 5)

Clock Face and corresponding code breaker page

3 code lock

QR code linked to Piatt County Ag in the Classroom "apples" video on You Tube

QR Code to find the code: Apple

QR Code Reader on tablet

Word Find

5 letter lock set to apple

Black light marks

Wipe board markers

Laminated math sheet

4 code lock

Apple parts puzzle

Aurasma Ap

Video of direction lock code

Direction lock

5 bags (1 bag per group) and 1 Key card per group (designates who opens the lock)

Story Line Objective: Use the hidden clues to help Millie save her family farm.

Story Background: Her family has hidden and guarded her famous grandfather's apple growing secrets and knowledge in the Ag mag. Find the hidden clues to solve the box and save the farm.

Clues are hidden in the Ag Mag by black highlighter, QR codes and Aurasma Apps. Each clue helps to unlock the box to find the deed to the farm in the inner smaller box.

Mildred Appleseed, best known as Millie, just graduated from the U of I with a degree in Agronomy. She is the great, great, great, great granddaughter of the famous Johnny Appleseed. She too wants to plant apple trees all over the United States and especially on her family farm in Illinois. But – her family farm land might have to be sold to the developer who wants to build a horrid shopping mall! Over the years her family has hidden away Grandpa's apple tree secrets along with the deed to the farm. If she can find the answers to the secrets and unlock the box, she can save the farm and begin to plant trees of her own.

Puzzle 1 – (this can be done as a class to teach the students how this game is played)

Solution: Commodity

Materials: Key lock, 9 fake coded apples, commodity sheet, commodity poster

Story connection: what the Appleseed family hopes to farm and sell on the family farm. What a commodity is, and how to play the game.

Procedure:

Show class the box. Randomly pass out pre-coded apples to students. Have each group look at the apples to see the codes.

Show and explain the commodity map.

Use the black paper with the definition of a commodity on it to complete the word (as a class). Unlock the first box and find the scenario of Mildred Appleseed.

Puzzle 2

Solution: 397

Materials: Apple Mag, black light highlighters, black light flashlights, clock face, random codes, and corresponding codes

High light the letters: G R A in the Gold Rush apple section of page one in the Apple Mag. Create a series of codes that would correspond with a clock face. (Clock face was found at a craft store and is placed on a random clear folder).

Create a code sheet that has letters and numbers randomly scattered throughout page. Code page corresponds to numbers on clock.

Puzzle 3

Solution: Apple

Materials: Ag Mag, QR Code, Apple Word Fine, 5 letter lock, access to internet -You Tube

Procedure: Connect tablets to internet and QR Code. Set one QR code to the You Tube Channel from Piatt County Ag In the Classroom "apples" . Students will listen and see how apples are grown in Illinois. This connects to the Ag Mag section on graphing and budding.

Connect second QR code to read "apple".

Hide random QR codes in Ag mag. Only hide one QR Code to Apple on the back of a random piece of material.

Puzzle 4

Solution: 1620

Materials: Black highlighter, black flashlight, Ag Mag's, math paper, wipe board markers, and 4 combo lock

Procedure: Students are to look though the Ag Mag for the highlighted section (highlight the Pilgrims section of the Mag). Students are de-code the code using the math questions associated with the Pilgrims and Apples.

Puzzle 4

Solution: left, up, down, up, down, left

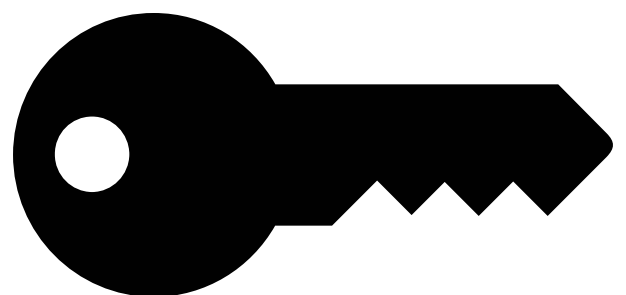
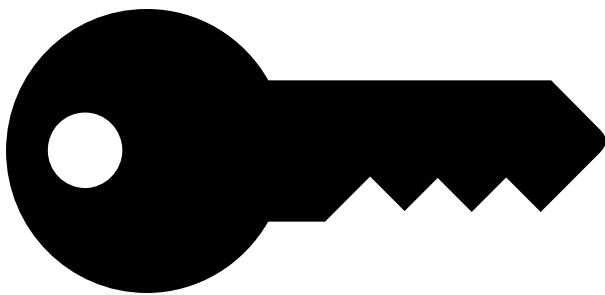
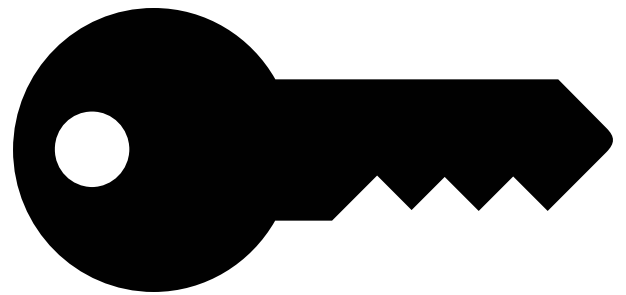
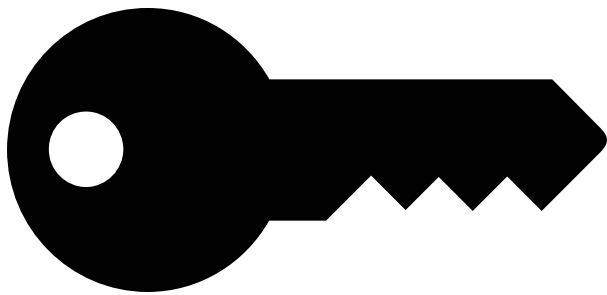
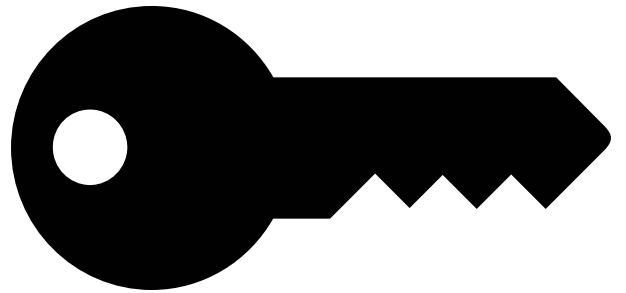
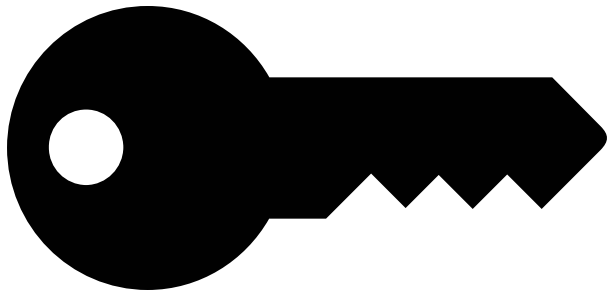
Materials: directional lock, aurasma app, copied apple parts, apple vocabulary words, black light flash light, the word "flesh" copies out, Ag Mag. Write directions to Aurasma app in black light writing. Use Aurasma app to tape how to open directional lock. Also link Aurasma app to other random pictures to help students figure out what part they need to find.

Procedures: Students are to find the parts of an apple. Using flashlights, find the hidden directions. Hover over parts of apple with aurasma app to find the directional code.

Once all of the locks have been opened, the "Deed to the Farm" is in the inner smaller box.

Each group needs to teach the class how they opened the box.

Additional writing assignment is included for reflection. This also uses a "code" to complete.







G G A R I Q Z T Q K O Z O X R
F R N I O P T A N A W G O O O
U O A I C O P P T J X V G T K
Q E C F D S T E H M P E C C O
D D K R T D R S Z G H N B H X
A W K D V I U E T A P P L E F
C E P M Z R N B W O T F G U E
Z Y Q R N L B G E O C X Q F X
N O C G U G L U E Q R K D A X
J A P S R R F U I T L G B S C
C D K J S H P I H D W P O H O
X M A A E X O Y A U H P U N J
Y H S C R E S I Y W H G O C G
G W K E Y I I F K Y U D W X F
I C D Y X L E Y X R G Q G R I

APPLE
BUDDING
GLUE
GRAFTING
GROWERS
NURSERY
ROOTSTOCK
TAPE



Mildred Appleseed Warm Up

9 apples

Stickers with codes

Code breaker sheet

Key to outer lock

Commodity poster

Ag mag apple

Mildred Apple seed story

Deed locked in small box

Mildred Appleseed #1

Ag mag apple

Black light markers

Highlighted GoldRush article:GRA

Clock face

Code page

Mildred Appleseed #2

Ag Mag

QR Code linked to Piatt Co Youtube Apple

QR Code: Apple on back of word find

Apple word find

QR Code App

5 letter lock set to APPLE

Mildred Appleseed #3

Ag Mag

Black light marker

Black light flashlights

Wipe board markers

Math question sheet

4 code lock set to 1620

Mildred Applesedd #4

Ag Mag

Apple Parts puzzle

Aurusma Apple parts code

Apple "flesh" paper with highlights

Black light marker

Black flash light

Directional lock set to right, up, down, up, down, left

12Z

1P

6M

3G

4S

5B

7A

3G

11W

6M

9R

3G

4B

7A

4S

1P

3G 7A

9R

6M

12Z

9R

4S

6M

Mildred Appleseed, best known as Millie, just graduated from the U of I with a degree in Agronomy. She is the great, great, great, great granddaughter of the famous Johnny Appleseed. She too wants to plant apple trees all over the United States and especially on her family farm in Illinois. But - her family farm land might have to be sold to the developer who wants to build a horrid shopping mall!

Over the years her family has hidden away Grandpa's apple tree secrets along with the deed to the farm. If she can find the answers to the secrets and unlock the box, she can save the farm and begin to plant trees of her own.

Solve the riddle to unlock the apple mystery!

They were the first settlers to come to the New Land _____.

The pilgrims brought a five-letter fruit and taught them how to grow one more _____.

One Pilgrim and one Native American make _____ people.

They came to explore our nation when it wasn't even 1 _____.

0

6

2

1

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0

6

2

1

Writing Assignment – Apples with Ag in the Classroom:

Using the “codes” listed below, write an 8-sentence paragraph describing your work today while solving the BreakOut Box’s riddles.

Code: 1 -2 -3 2-3 2-3 5

1: Topic sentence: *The breakout box was a fun way to learn about apples because...*

2: *First* or *To begin with,*

3. *For example*

2. *In addition to* or *Second* (the first statement you made,), *the break out box was*

3. *For instance*

2. *Lastly* or *Finally*

3. *Because the box was* (your reason above in your #2 statement),

5. Your summary sentence: In conclusion, the breakout box was a fun way to learn about apples because #2 , #2 , and #2 .