

## Resources from STEM Virtual Programming

Goose Chase: <https://www.goosechase.com/>

Breakout Edu: <https://www.breakoutedu.com/>

Hen House Breakout Game: <https://sites.google.com/view/greatescapesfarm/home>

Google Docs Resource: <https://sites.google.com/view/digitalbreakouttemplate>

Site with awesome puzzle resources: <https://www.breakoutedu.com/puzzleresources>

Sew Electric: <http://sewelectric.org/>

Arduino used for LilyPad coding: <https://www.arduino.cc/>

Crime Scene Camp: <https://sites.google.com/view/ndsustemkids/home> See second page for supply list for crime scene camp. Videos direct each activity.

Hosting Virtual Games Quick Guide (University of Minnesota):  
<https://docs.google.com/document/d/1J5KPzps8Lufe9eqNVBugA1yM4rFEvRhyRvGRO6mNio4/edit>

Build Safe Online Learning Environments (University of Minnesota and CYFAR):  
<https://cyfar.org/resource/build-safe-online-learning-environments-youth>

Energy Breakout: <https://sites.google.com/view/bfbreakout/home>

Solutions:

Corn Production Page: 168 (average yield) and Energy from the word scramble. Unlocks Photosynthesis for the home page.

Refinery: Fermentation (underlined letters in document), 523 (statewide ethanol production capacity from map - need to add), Distillation. Unlocks C<sub>2</sub>O<sub>5</sub>OH for the home page.

Retailing page: Gasoline is a mixture (from the cipher), 113 (ethanol's octane number from the photo). Unlocks Octane.

Parliamentary Procedure Breakout Edu Game:

<https://platform.breakoutedu.com/game/play/effective-meetings-639266>

Solutions:

**Color Lock:**

Code: Blue, Red, Yellow, Orange, Green

Colors of the vowels in order they are in the word.

**Shape Lock:**

Image with the letters in shapes. Answer is AGENDA

Code: Square, Circle, Diamond, Square, Circle

**Letters Lock:**

Code: C M C T O C U N A A

Correct order of an agenda, using the first letter of each

**Numbers Lock:**

Code: 2 3 1

Calls the meeting to order – 2 taps

Signal for members to stand – 3 taps

Signal for members to be seated – 1 tap

**Letters Lock:**

Code: S R V S S (First letter of the answer in the order of the puzzle numbers)

Agriculture Breakout Game:

<https://docs.google.com/forms/d/e/1FAIpQLScR4R269XaT0zd8B6BrKEXsGPazk4jb8ppfpaPQLy8lz7-z2A/viewform>

**Solutions:**

Section 1; (Keep all format the same)

1. 13.3 cents
2. food services
3. 30.3 cents

Section 2;

1. wheat

Section 3;

1. pink
2. green
3. yellow
4. orange

Section 4;

1. CODE (2194)

Section 5;

1. up
2. up
3. right
4. down
5. left

Section 6;

1.  $\frac{3}{4}$
2. wheat, rice and corn
3. corn
4. wheat
5. rice
6. cheeseburger
7. Code (324213)

## Crime Scene Camp Supply List

### Blood Type Activity:

Paint palettes to mix materials

Blood typing lab kit (we bought on Amazon and then repackaged everything into little dropper bottles)

### Powder Analysis:

Small zipper bags for powders

Baking soda

Sugar

Salt

Pipettes

Small bottles for liquids

Water

Vinegar

Paint palettes for mixing

### Fingerprinting:

Fingerprint cards

Stamp pads

Alcohol wipes for cleanup

### Shoeprint activity:

Printed shoeprint

Ruler

Blood spatter:

Ruler

Pipette

Fake blood (we bought one bottle and watered it down a lot; in person we use water/milk/food coloring)

Dropper bottles for blood

Bitemark analysis:

Candy (e.g. Laffy Taffy, Tootsie rolls)

Styrofoam plates to bite into

Other general things:

Notebook

Invisible ink pen with light

A pair of gloves

Mini magnifying glasses