

## PARENT LETTER FOR SCIENCE OF SURVIVAL

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We have an amazing week in store for our Scientist of the Future!

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### DAY 1

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What to do if we find ourselves in a survival situation! S.T.O.P

Orienteering: What if we get separated from our family while in the woods? No problem! We will learn how to use a compass to find our way.

We will also create our own compass and learn about eddy currents.

How much day light do we have left? We will learn how to tell.

We will learn how to create vinegar. This is a useful product for preserving food!

### DAY 2

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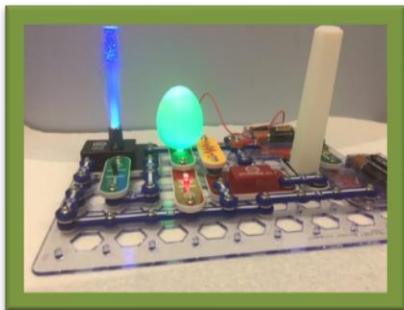


We will start the creation of our SOS kit. This is full of the items we need when away from home.

Since we will be creating our own flashlights we will need to understand how circuits work. We will start our Snap Circuit Lights activities! In our first activities we will introduce resistors, switches, LEDs and circuits.

Knots, knots everywhere! It is so much simpler to do things if you know the perfect knot for the situation! Each day we will learn new knots and where they would be used.

As we learn more knots we will make our para cord key chain. We will learn why paracord is SO useful!



Next, we will use these knots, poles and tarps to create survival shelters.

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### DAY 3

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Our scientist will have a great time as they create their own flashlight from scratch and learn the electricity behind its operation. We will answer questions such as “how is electricity generated?”

Can we create an electric current with a potato? We will find out?

We will continue our exploration of our snap circuits. On this day we will learn about capacitors, transistors, jumper wires, speakers strobes and the color organ. Wait until you see their final creation!!

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### DAY 4

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What if we need to set up a base camp and need to get water to it? Well, we will learn how to create a syphon system to do that.

Can you open a can with just concrete or a rock? We will find out!

Why shouldn't we drink water in nature? Let's take a look at those pathogens under a microscope and see what they look like! Next, will determine what we can do to purify the water.

We will learn about acids and bases, pH scale and how to use a microscope!

Today the students will get to pick their own projects from the Snap Circuits Light Box. As they create their circuits the teacher will be checking to make sure that each student understands what role each part in the circuit does.

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## DAY 5

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Duct Tape, the miracle survival tool. What can we make with that?

Why would we need to learn basic sewing skills? These can save our lives and fix clothing.

Next, we will create and cook in a solar oven.

We will learn to build a fire and learn all the safety protocols.

We started our vinegar making on Monday. Today we will find out how this is another miracle survival tool.

We will add more exciting Snap Circuits to finish out our day! Today the focus will be motorized strobe effects. Students will learn the apparently magical effect of spinning disc of light!