

NAME: _____

Aligned to the following standards:
FFA.PL-A.; FFA.PL-B.; FFA.PL-D.; FFA.PL-F.; FFA.PG-H.; FFA.CS-M.; FFA.CS-N.; FFA.CS-O;
CCSS.ELA-RI.9-10.4; CCSS.ELA-W.9-10.2; CCSS.W.9-10.4; CCSS.ELA-W.9-10.6; CCSS.ELA-SL.9-10.4; CCSS.ELA-WHST.9.10.2; CCSS.ELA-WHST.9.10.4; CCSS.ELA-WHST.9.10.6; MP1;
MP2; MP6; CRP.04; CRP.06; CRP.08; CRP.11

Hydroponics Q & A

DIRECTIONS

Answer the questions below as you watch the video Giovanni Roman – SAE – Hydroponics,” available at <https://vimeo.com/300298524>.

1) What motivated Giovanni to start his SAE?

2) What were some of the beginning steps he had to take to start his SAE? (Identify 4 steps.)

3) What did he learn the most from his SAE?

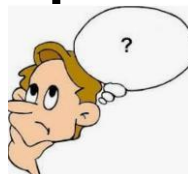


4) What advice does Giovanni give to those starting an SAE?



6) After watching this video, what did you learn that can be applied in your life?

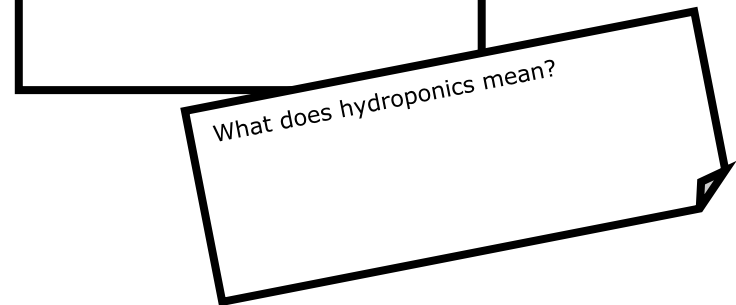
5) How does this SAE impact his future?



Hydroponics

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CCSS.ELA-RI.9-10.4; CCSS.ELA-W.9-10.2; CCSS.W.9-10.4; CCSS.ELA-W.9-10.6;
CCSS.ELA-SL.9-10.4; CCSS.ELA-WHST.9.10.2; CCSS.ELA-WHST.9.10.4; CCSS.ELA-
WHST.9.10.6; MP1; MP2; MP6; CRP.04; CRP.06; CRP.08; CRP.11

<https://www.epicgardening.com/hydroponic-systems/> and <https://www.hydroponic-gardens.com/how-to/drip-system/>.



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CCSS.ELA-RI.9-10.4; CCSS.ELA-W.9-10.2; CCSS.W.9-10.4; CCSS.ELA-W.9-10.6; CCSS.ELA-SL.9-10.4; CCSS.ELA-WHST.9.10.2; CCSS.ELA-WHST.9.10.4; CCSS.ELA-WHST.9.10.6; MP1;
MP2; MP6; CRP.04; CRP.06; CRP.08; CRP.11

Part 2

Examine the advantages and disadvantages of hydroponics, and identify 3 advantages and 3 disadvantages. Record your responses on the containers below. Suggested websites to reference for your research are <https://dynagro.com/hydroponics-advantages-and-disadvantages/> and <http://easyponic.com/pros-and-cons-hydroponics>.

Advantage:

Advantage:

Advantage:



Disadvantage:

Disadvantage:

Disadvantage:



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Build Your Own Hydroponics

Part 1

Let's build it! Research how to build an easy DIY (do-it-yourself) hydroponic system. Suggested websites to reference for your research are <https://www.instructables.com/id/Make-a-super-easy-hydroponics-system/> and <https://foodiegardener.com/easy-hydroponic-planter-grow-lettuce-in-repurposed-coffee-container/>.

What supplies are needed to build the DIY hydroponic system?



In the areas below, write step-by-step instructions as though you were explaining how to build it to an elementary student. (Some boxes will contain more than one step.)

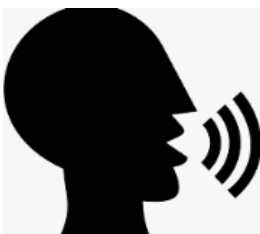
Steps 1 and 2:

Step 3:

Step 4:

Steps 6 and 7:

Step 5:



Aligned to the following standards:

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Part 2

Now what? You have built your own hydroponic system (or researched how to do so). Now, construct a plan to sustain the hydroponic system. In the boxes below, record which steps are the most important and explain why they are the most important. A suggested website to reference for your research is <https://www.grodan.com/global/>.

Develop Your Plan

