

00:13:53 KidsGardening: Exploring Hydroponics K-2:
<https://kidsgardening.org/resources/curricula-books-discovering-hydroponics/>
00:14:57 Jason Overmyer: Hi, I'm an AI assistant helping Jason Overmyer take notes for this meeting. Follow along the transcript here:
https://otter.ai/u/v9ZjOwL-3bbTHQnCGmn52UEWmY0?utm_source=va_chat_link_1

You'll also be able to see screenshots of key moments, add highlights, comments, or action items to anything being said, and get an automatic summary after the meeting.

00:16:10 KidsGardening: Exploring Hydroponics 3-5:
<https://kidsgardening.org/resources/gardening-basics-exploring-hydroponics/>
00:16:24 Arlene Boyer: Hello from Round Rock in Central Texas
00:16:45 Ivelisse Colón: Ivelisse Colón, FCS Agent NC Cooperative Extension Orange County. Want to offer the alternative of hydroponics to Early Care Centers.
00:16:54 Sophie Lindley: My name is Sophie Lindley and I am working with the Indiana Department of Education helping with Farm to School Efforts. Excited to learn more about hydroponics!
00:17:15 Ivelisse Colón: Replying to "Ivelisse Colón, FCS ..."

North Carolina

00:17:25 Suzie Petronzi: Hello! My name is Suzie and I am with Green Our Planet as well. I live in Las Vegas and have been working with Chris and our HydroConnect program for about a year now.
00:17:26 Cass Henderson: Cass Henderson, I'm from Rancho Cucamonga, CA.
00:17:39 Arielle Larry: Arielle Larry and I'm located in Atlanta, GA. I'm with Food Corps and teach K-5! I have four hydroponic towers to get better acquainted with and here for all the help I can get!
00:18:07 Nathan Sekinger: Hello! Nathan Sekinger from Fredericksburg, Virginia. We run garden programs at our middle school.
00:18:18 Vanessa Conley: Vanessa Conley, I'm a school gardener at a non profit early childhood center. Does anyone have experience/ideas for implementing hydroponics in an early childhood setting?
00:18:51 Claire MacPherson: Hello! Claire MacPherson here in Pullman, Washington. I manage our food bank garden program which includes an extensive hydroponic set up to provide fresh greens in the food bank year around. Hoping to start providing hydroponic education to our clients in the future!
00:18:59 Jennifer Batron: Jennifer Batron, Middle School Life Sciences in Dexter Maine, and am a member of our school's garden club. I have one (very small) hydroponics tank in my room, and am interested in expanding what I do with it into something larger that can connect with our garden program.
00:19:01 Susan Schipull: School Gardens Resource Teacher-Albuquerque Public Schools. I am here to soak up the information!
00:19:02 katie seigler: I'm Katie with Prescott Unified School District in Az! I'm excited to learn more about hydroponics as we have new hydroponic systems coming into our district. I'm very excited to learn more about hydroponics and helping support teachers and students learn more as well.
00:19:04 Ginger Graves: Hi, I'm Ginger from Smyrna Public Library in Tennessee. I want to learn about hydroponics so I can incorporate this gardening option into our library programs for kids
00:19:17 Natasha Gibbs: Hi! Im a garden educator at Cheekwood Botanical

Gardens in Nashville TN. We're hoping to partner with metro Nashville public schools to install and maintain hydroponic systems in their classrooms!

00:19:28 Brittany Nichols: Hello- Brittany Nichols- STEAM teacher for k-2 in Milledgeville, Ga. We have 4 hydroponic systems that I started with last year. I am learning so much through the process!

00:19:32 Akil K Rahim: Akil Rahim from Ellicott City, MD and Lakeland STEAM Center in Baltimore; no hydroponics yet...

00:19:41 Kathleen Venable: Hello! I'm Kathy Venable, a K-5 STEAM Lab Educator in Jefferson, Georgia. We have a tower garden and we hope to get our aquaponics system up and running as well!

00:20:37 Taylor Teasley: Hello everyone! Taylor Teasley here from the YMCA in Chattanooga, TN! I'm interested in anything anyone can share with me useful to help us build our very first hydroponic garden! This is a completely new thing for me and my staff and we could use all the help we could get :)

00:20:51 Dani Dolphin: Hi, I'm Dani Dolphin with Walla Walla Farm to School in Washington and I run two elementary school gardens and one hydroponics tower.

00:21:58 Dawn Snead: Hey. Dawn Snead, youth educator at Veggie Cupboard Community Garden in SC. We've got a hoop house that we are preparing to setup a large hydroponic system in. Just hoping to get some ideas, insight and things to look out for.

00:23:37 Linda Hulen: Dan, what substrate are you using to grow your seeds? And how are you sterilizing your tower components between grows?

00:26:45 Jason Overmyer: Hi, I'm an AI assistant helping Jason Overmyer take notes for this meeting. Follow along the transcript here:

https://otter.ai/u/v9Zj0wL-3bbTHQnCGmn52UEWmY0?utm_source=va_chat_link_2

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00:28:54 KidsGardening: www.greenourplanet.org

00:29:19 Nathan Sekinger: We have a few of the Tower gardens. I like the flexibility and mobility of the kits.

00:29:53 Taylor Teasley: wow!

00:30:10 KidsGardening: KG's Best Crops for Hydroponics Article:
<https://kidsgardening.org/resources/growing-guide-best-crops-hydroponics/>

00:30:11 Brittany Nichols: I agree. The Tower garden or more expensive stuff is worth the money! Our cheap units are hard to clean and not as successful.

00:30:49 Taylor Teasley: Reacted to "I agree. The Tower g..." with 🍌

00:30:57 Taylor Teasley: Reacted to "KG's Best Crops for ..." with 🍌

00:31:28 Lisa Mack: We offer Rise Gardens as well as OPCOM Farm Hydroponics systems and more-and create programs specific to your needs at nextgenharvest.org

00:31:34 Taylor Teasley: Reacted to "We offer Rise Garden..." with 🍌

00:31:53 Andrea Martinez: Reacted to "KG's Best Crops f..." with 🍌

00:32:31 Diane Trout: Loving this! Running out to do car line. I'll be back in a little bit.

00:32:38 KidsGardening: Thanks Diane!

00:33:04 margo mejia: Reacted to "I agree. The Tower g..." with 🍌

00:33:05 margo mejia: Reacted to "We offer Rise Garden..." with 🍌

00:33:12 Brittany Nichols: I agree Chris! The lights make it! And
that's why some of the cheap ones don't work as well in my new experience.
00:33:19 Taylor Teasley: Reacted to "I agree Chris! The l..." with 🇺🇸
00:35:06 Madeline Delaney: Sharing these again:

Exploring Hydroponics K-2:

<https://kidsgardening.org/resources/curricula-books-discovering-hydroponics/>

Exploring Hydroponics 3-5:

<https://kidsgardening.org/resources/gardening-basics-exploring-hydroponics/>

00:35:39 Andrea Martinez: <https://www.youtube.com/c/greenourplanet> (=
00:35:55 Taylor Teasley: Reacted to "https://www.youtube...." with 🇺🇸
00:35:59 Taylor Teasley: Reacted to "Sharing these again:..." with 🇺🇸
00:37:00 Ivelisse Colón: Can you write that on the chat?
00:37:03 Chris Anderson - Green Our Planet: Good idea, Linda!

Diatomaceous earth

00:37:15 Chris Anderson - Green Our Planet: Actually Diatomaceous Earth
00:37:39 Dan Alcorn: Thanks all for the information! Comforting to know
the larvae are 'normal', or at least not out of the realm of acceptable. The kids
and I were spooked a little seeing all the larvae wiggling around
00:37:47 Lisa Mack: "No Natz" spray also works
00:39:03 Ivelisse Colón: Something simple to begin with.
00:40:25 Chris Anderson - Green Our Planet: Idoo or Aerogardens 8-12
plant systems cost less than \$100 each. The replacement pods and nutrients are
really where those companies make their money.
00:40:29 Kim Kolasa: I'm sorry I have to sign off. Keep the discussion
and growing with students alive!
00:40:41 KidsGardening: <https://aerogarden.com/home/>
00:40:51 KidsGardening: Thanks Kim!
00:43:21 Nathan Sekinger: Even our middle schoolers love to try the
food growing in our library as they walk by.
00:44:06 Ivelisse Colón: Reacted to "Actually Diatomaceou..." with 🇺🇸
00:45:10 maggi molina: Ivelisse - you could even just sprout seeds in a
mason jar. no special lights or nutrient mix. kids watch the seed turn into a plant
in days and can eat it. very low cost too.
00:45:54 Chris Anderson - Green Our Planet: Replying to "Ivelisse - you
could..."

yes, look into DIY Kratky systems - super easy

00:46:24 KidsGardening: KG's article Starting Seeds for Hydroponics:
<https://kidsgardening.org/resources/digging-deeper-starting-seeds-for-hydroponics/>
00:49:30 Arlene Boyer: what can be used in shallow containers for growing
micro-greens - not in water - but related
00:49:43 Sophie Lindley: I know of strawberries, herbs, greens, and dwarf
tomatoes...what are other things that can be grown?
00:49:57 Suzie Petronzi: Talking about roots and their importance is also
great for kids w/ hydro since they can actually see them working!
00:51:13 Vanessa Conley: How do schools handle their hydroponic systems when
the school is closed for things like the winter holidays?
00:51:43 Ivelisse Colón: Reacted to "How do schools handl..." with 🇺🇸

00:52:10 Abby Brown: Reacted to "Ivelisse - you could..." with 🍌
00:52:28 Arielle Larry: Reacted to "How do schools handl..." with !
00:52:37 Kaitlyn Scheuermann: How do folks do fruiting/flowering plants?
Any resources for nutrient needs, care, pollination, etc.? We have struggled to
move beyond greens/herbs.
00:52:44 margo mejia: This is very informative, thank you for all the
resources! Is there a specific type of light you'd recommend- do you prefer
fluorescents or LEDs?
00:53:08 Chris Anderson - Green Our Planet: Replying to "This is very
informa..."

LED is the most efficient

00:53:27 margo mejia: Reacted to "LED is the most effi..." with 🍌
00:53:36 Chris Anderson - Green Our Planet: Replying to "This is very
informa..."

We've also had luck with T5 lights.

00:53:42 margo mejia: Reacted to "We've also had luck ..." with 🍌
00:54:44 Vanessa Conley: Thanks Susan!
00:55:10 Diane Trout: Reacted to "How do folks do frui..." with 🍌
00:55:12 Nathan Sekinger: Replying to "This is very informa..."

We upgraded our fluorescents to LEDS on the Tower gardens. I was tired of replacing
bulbs!

00:55:16 Taylor Teasley: Can we have the contact information of those who
have had hydroponic experience like fork farms, next gen, kids gardening, etc.?
00:55:26 margo mejia: Reacted to "We upgraded our fluo..." with 🍌
00:55:58 Susan Schipull: Can you talk a bit about lighting, please? We have
used regular shop lights and will be building some towers. Will full spectrum LED
lights be our best option for the towers?
00:56:00 Diane Trout: We are going to put one of our new tower gardens by
our front entrances so our parents can see.
00:56:23 Linda Hulen: can you address ph levels?
00:57:16 Ivelisse Colón: Any issue we should be aware regarding hard water?
00:57:24 Taylor Teasley: Reacted to "We are going to put ..." with 🍌
00:57:28 KidsGardening: Hi Taylor send an email to
community@kidsgardening.org and we can help with any and all questions, contacts
and resources you're looking for 😊
00:57:42 Jennifer Batron: Reacted to "Ivelisse - you could..." with
🍌
00:57:50 Taylor Teasley: Reacted to "can you address ph l..." with !
00:57:56 Natasha Gibbs: Any tips/tricks for building and sustaining
enthusiasm for hydroponics within elementary schools? I work at a botanical garden
hoping to partner with schools + lend out hydroponic systems.
00:58:03 Taylor Teasley: Reacted to "Hi Taylor send an em..." with ❤️
00:58:32 Lisa Mack: Replying to "can you address ph l..."

on our FAQs page -we have a short and easy Ph level cheat sheet that may help you

00:58:33 Lisa Mack: Replying to "can you address ph l..."

<https://fullcircle26inc.com/faqs>

00:59:20 Lisa Mack: Replying to "can you address ph 1..."

here is the levels you should estimate that E.C. is 0.8-2.0 mS/cm and pH 5.5-6.5

00:59:40 Megan Jones: Replying to "Any tips/tricks for ..."

We collaborate with our local Farm Bureau, who has a program called Ag in the Classroom. They use it for classroom, formal education. Many of our classes have sustained merely by engaging the kids. Our preschoolers love harvesting their garden.

00:59:45 Chris Anderson - Green Our Planet: Peas and beans are awesome!

01:00:21 Natasha Gibbs: Reacted to "We collaborate with ..." with ♥

01:00:29 Lisa Mack: Replying to "Any tips/tricks for ..."

we created Jannie's Hydroponics Explorers club

<https://www.facebook.com/groups/jannieshydroponicexplorers/>

01:00:33 Chris Anderson - Green Our Planet: Reacted to "here is the levels y..." with 🍷

01:00:58 Darann Morgan: Reacted to "we created Jannie'..." with ♥

01:00:58 Sophie Lindley: Do you put seeds directly into the system or do you have to start the seed in rockwool prior to putting it into the system?

01:01:02 Lisa Mack: Replying to "Any tips/tricks for ..."

we hope to expand so the kids can share what they are growing with other schools - imagine penpals

01:01:12 Abby Brown: Replying to "Can we have the cont..."

Sure! sue@forkfarms.com is one ☺ Love working with Sue!

01:01:34 Natasha Gibbs: Replying to "Any tips/tricks for ..."

love the idea of a facebook group for a sustained relationship! thank you

01:01:38 Natasha Gibbs: Reacted to "we hope to expand so..." with ♥

01:02:11 Taylor Teasley: Replying to "Can we have the cont..."

tysm!

01:02:17 Lisa Mack: Replying to "Can we have the cont..."

Here's mine: Lisa.mack@fullcircle26inc.com

01:03:03 Chris Anderson - Green Our Planet: Replying to "Can we have the cont..."

chris@greenourplanet.org

01:03:11 Lisa Mack: Replying to "Can we have the cont..."

our website offerings are nextgenharvest.org (nextgenharvest@gmail.com - direct email)

01:03:55 Taylor Teasley: I am definitely scared!

01:04:33 Ivelisse Colón: Reacted to "I am definitely scar..." with 🙄

01:04:35 Dory Cooper, Wylde Center: We like to create "garden committees" at schools to have a network of parents to call on whenever we need

help or support. We either meet monthly or send regular email communication to keep them engaged. From there we can sometimes find 2-5 parents who are willing to take on watering, planting, etc tasks.

01:04:54 KidsGardening: Reacted to "We like to create "g..." with 🍌
01:04:54 Susan Schipull: Reacted to "We collaborate wit..." with 😊
01:05:01 margo mejia: Reacted to "We like to create "g..." with 🍌
01:05:08 Vanessa Conley: Reacted to "We like to create "g..." with 🍌
01:06:17 Diane Trout: Reacted to "We like to create "g..." with 🍌
01:06:43 Taylor Teasley: Reacted to "We like to create "g..." with 🍌
01:06:45 Susan Malesa - Fork Farms: Replying to "I am definitely scar..."

Do not be scared!

01:06:59 Taylor Teasley: Replying to "I am definitely scar..."

I feel a lot better after being on this webinar :)

01:07:12 Taylor Teasley: Replying to "Can we have the cont..."

thanks everyone!

01:07:28 Taylor Teasley: Replying to "Hi Taylor send an em..."

Will do!

01:08:03 Taylor Teasley: Replying to "We like to create "g..."

I'd love to hear more about this!

01:08:10 Hope Jarrard: How long do y'all leave the pump on
01:09:56 Natasha Gibbs: Reacted to "We like to create "g..." with 🍌
01:10:13 Chris Anderson - Green Our Planet:
https://docs.google.com/document/d/1yud3-YGIlZSdqob85ukGDcH6-Vn_TM0U7S_0119Lt9w/edit
01:10:13 Dory Cooper, Wylde Center: Replying to "We like to create "g..."

We create sign-up lists and try to find interested parents at PTA night or STEM nights. Then we add these contacts to a google group and send information about what's growing in the garden, any garden needs, and upcoming volunteer days. It tends to be about 10 folks that have been really helpful

01:10:21 Chris Anderson - Green Our Planet: Replying to "We like to create "g..."

This is a great way to organize. We recommend garden teams and garden clubs!

01:10:22 Sophie Lindley: Thanks so much, so much great information!
01:10:28 Linda Hulen: Reacted to "on our FAQs page -we..." with 🍌
01:10:29 Vanessa Conley: Thank you!
01:10:29 Susan Schipull: Great information. Thank you so much!
01:10:33 Taylor Teasley: tysm everyone!
01:10:35 Suzie Petronzi: Thank you, Chris and Sue!! This was great!
01:10:40 Ivelisse Colón: thanks a lot!
01:10:49 Abby Brown: Thank you all!
01:10:50 Cass Henderson: Thank you very much.