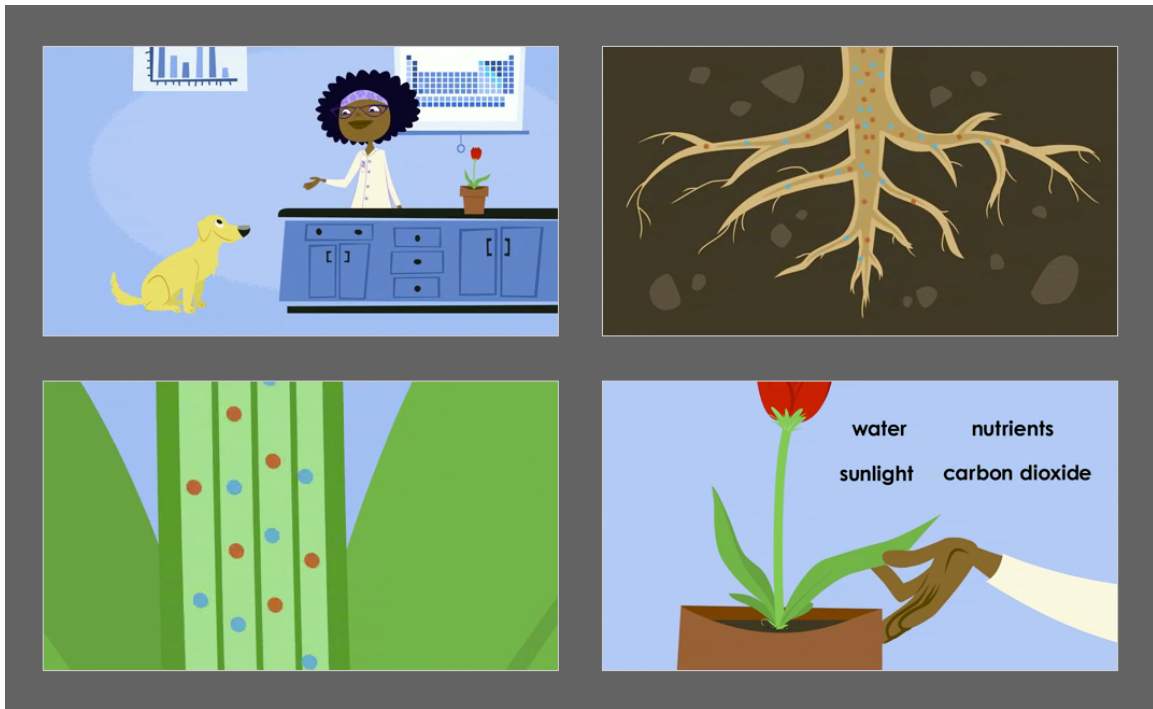


PLANT NEEDS, JOBS AND PARTS

Second Grade: 475_L26_script_Hester_PlantNeedsJobsParts_v1.4



EXT. HESTER'S GARDEN - DAY

HESTER and JESTER are surrounded by dozens of freshly planted flowers. Jester's paws are covered with dirt. Hester wears gardening clothes.

HESTER

Hi, kids! Professor Esther Hester here! Today I'm in my outdoor lab -- also known as my garden! And this is my gardening partner, Jester. Say hello, Jester.

Jester BARKS. Hester holds out a plant.

HESTER

One plant left!
(to Jester)
Can you dig the last hole?

Jester nods enthusiastically and digs a hole with his front paws, tail wagging.

HESTER

You're the best digger ever!

Jester looks on as Hester places the plant in the hole. LESTER enters, followed by four other kids (from the G2-L1 Camp Discovery Senses Animation): JAMEEL, CHARLOTTE, LOGAN, and PIPER. Each carries a different FLOWERING PLANT.

LESTER

Hi, Aunt Esther! Hey, Jester!

Jester YAWNS.

HESTER

(laughs)

Jester's been helping me plant all morning.

Jester curls up and goes to sleep.

HESTER

So, what question are you junior scientists investigating today?

LESTER

We're trying to decide which one of our flowering plants would make the best gift!

As they introduce their plants, each kid places the pot on a garden workbench.

JAMEEL

(re: a succulent jade plant)

Mine has the thickest leaves.

LOGAN

(re: roses)

Mine has sharp thorns and smells like perfume.

CHARLOTTE

(re: impatiens)

Mine has lots of pretty flowers.

PIPER

(re: strawberries)

Yeah, but mine has fruit you can eat!

LESTER

(re: sunflower)

Well, mine has the biggest flower!

CHARLOTTE

They're all so different, we can't choose!

HESTER

Your plants might look different on the outside. But inside, they have a lot in common.

LESTER

They do?

Hester hands out Augmented reality goggles to the group.

HESTER

Put on these Augmented Reality glasses and see for yourself!

The kids put them on and turn to their plants.

LESTER

Wow!

CHARLOTTE

Awesome!

PIPER

Cool!

LOGAN

Super cool!

JAMEEL

Amazing!

JAMEEL

Whoa! I can see the roots!

JAMEEL'S GOGGLE POV: We see through the pot and witness the roots in action, absorbing water and minerals.

HESTER (O.S.)

See how the roots hold on to the soil? That keeps the plant in place. Roots spread out to bring in water, oxygen, and nutrients – almost everything the plant needs to live.

MOVE BACK to see the succulent and its roots. Hester pours some water into the pot and the roots rapidly absorb water.

HESTER (O.S.)

Some plants live in places where it doesn't rain that much. So when it does rain, their roots soak up the water really quickly!

SPLIT SCREEN to reveal the strawberry bush and its roots underground. The roots absorb less water, more slowly. . The difference is clearly visible.

HESTER (O.S.)

Other plants, like Piper's strawberries live where there is usually lots of water, so they can soak it up all the time... slow and steady!

ZOOM OUT as the other kids point at their own plants.

CHARLOTTE

My roots are doing the same thing!

The others AD-LIB "Mine, too", "So are mine!" etc...

HESTER

What else do your plants have in common?

Logan leans in toward his plant.

LOGAN

I know! They all have stems that hold the plant up and -- whoa, look!

LOGAN'S GOGGLE POV: We see water and nutrients moving up through the stem.

LOGAN (O.S.)

Water is being sucked up the stem of my plant like a straw!

HESTER (O.S.)

That's right, Logan! The stem carries water and nutrients from the roots to the rest of the plant.

ZOOM OUT as the other kids lean in to observe the stems on their plants.

LESTER

My stem is carrying water and nutrients, too!

The others AD-LIB "Mine, too", "So are mine!" etc...

CHARLOTTE

Hey! Look at the leaves! What are they doing?!

CHARLOTTE'S GOGGLE POV: We see the leaf turning CO₂ into oxygen.

HESTER (O.S.)

Our air has different gasses in it, like the oxygen we breathe. There's also a gas called carbon dioxide that plants take in.

CHARLOTTE (O.S.)

You mean plants *breathe*?

ZOOM IN closer to see the leaves take in carbon dioxide and expel oxygen.

HESTER (O.S.)

Not exactly. The carbon dioxide gets into the plants through tiny holes in their leaves. Then the plant uses sunlight to change the carbon dioxide and water into food for it to use.

ZOOM OUT as the other kids excitedly examine their own leaves.

LESTER

Wow—plants can make their own food? That's amazing.

HESTER

It sure is! But here's something even more amazing. When a plant is making food, it's also making oxygen—the same oxygen that we need to live!

CHARLOTTE

I never knew plants help to make the air we breathe! Thanks, leaves!

HESTER

Some plants, like impatiens, only need a little sunlight to live. Others, like Lester's sunflower, need a *lot* of sunlight.

A BEE buzzes over to Lester's sunflower.

LESTER

Looks like my sunflower has a visitor!

LESTER'S GOGGLE POV: We see the bee busy at work.

HESTER (O.S.)

Bees are drawn to a flowers' bright colors and sweet smells. When a bee lands on a flower, it can pick up tiny pieces of pollen. If the bee carries the pollen to another flower and drops it there, that flower can start to make seeds -- and seeds grow into new plants!

ZOOM OUT as Piper leans in close to a cluster of strawberries.

PIPER

All your plants have flowers, but mine is the only one with fruit!

PIPER'S GOGGLE POV: We see a strawberry growing bigger and bigger, and inside it, we see tiny seeds.

HESTER (O.S.)

That's right--plants grow fruit to hold their seeds. That's why you find seeds in apples and oranges--and on strawberries!

Everyone LAUGHS as they remove their goggles.

CHARLOTTE

Our plants do have a lot in common!

LESTER

That still doesn't help us decide which plant will make the best gift.

PRODUCTION NOTE: *As Hester explains, we see image-recaps of the key concepts.*

HESTER

Sure, it does! Just think of all the amazing things plants do to stay alive. Roots hold the plant in place and collect water and nutrients. Stems hold the plant up and carry water and

nutrients to every part. Leaves turn carbon dioxide into food for the plant -- and oxygen for us. Some plants have beautiful flowers that attract insects -- and plants make delicious fruit to carry their seeds. In other words, ALL plants are amazing! So that means...

LESTER

ALL our plants would make amazing gifts!

HESTER

Question answered!

The kids exchange an amused look, pick up their plants, and hand them all to Hester.

LESTER

For our favorite science professor!

Hester is touched. She holds all five pots, peaking out through leaves and flowers.

HESTER

Awww, that's so sweet! Thank you!

The kids APPLAUD, causing Jester to wake. Hester shows him her armful of plants.

HESTER

Looks like we have a few more holes to dig,
Jester.

Jester's eyes widen, he jumps up, and races out of frame. Everyone LAUGHS as we:

IRIS OUT.

THE END