



AND MICHAEL  
DOUGLAS  
AS DR. HANK PYM

WITH LAURENCE  
FISHBURNE

WITH MICHELLE  
PFEIFFER

HANNAH  
JOHN-KAMEN

WALTON  
GOGGINS

MICHAEL  
PEÑA

EVANGELINE  
LILLY

PAUL  
RUDD

# ANT-MAN AND THE WASP

JULY 6

**ACTIVITY PACKET**

Created in Partnership with Disney's  
Animals, Science and Environment





#### Acknowledgments:

Disney's Animals, Science and Environment would like to take this opportunity to thank the amazing teams that came together to develop the "Ant-Man and The Wasp" Activity Packet. It was created with great care, collaboration and the talent and hard work of many incredible individuals. A special thank you to Dr. Mark Penning for his ongoing support in developing engaging educational materials that connect families with nature. These materials would not have happened without the diligence and dedication of Kyle Huetter who worked side by side with the filmmakers and educators to help create these compelling activities and authored the unique writing found throughout each page. A big thank you to Hannah O'Malley, Karlyn Marcy and Elyssa Finkelstein whose creative thinking and artistry developed games and crafts into a world of outdoor exploration for the Super Hero in all of us. Special thanks to director Peyton Reed and producer Kevin Feige, for creating such an amazing story that inspired the activities found within this packet. Lastly, thank you Theresa Cross, Anastasia Ali-Noble and Noah Duman at The Walt Disney Studios, as well as Adam Davis and Cameron Ramsay at Marvel Studios for their help and unwavering support of this project.

**Allyson Atkins**  
Education Line of Business Manager  
Disney's Animals, Science and Environment

# MARVEL STUDIOS ANT-MAN AND THE WASP

MARVEL STUDIOS PRESENTS PAUL RUDD "ANT-MAN AND THE WASP" EVANGELINE LILLY MICHAEL PEÑA WALTON GOGGINS BOBBY CANNIVALE JUDY GREER TIP "T.I." HARRIS DAVID DASTMALCHIAN HANNAH JOHN-KAMEN ABBY RYDER-FORTSON RANDALL PARK WITH MICHELLE PFEIFFER AND LAURENCE FISHBURNE AND MICHAEL DOUGLAS  
WRITTEN BY STEPHEN BROUSSARD AND CHARLES NEWIRTH  
DIRECTED BY PEYTON REED  
IN REAL D 3D AND IMAX  
JULY 6

From the Marvel Cinematic Universe comes "Ant-Man and The Wasp," a new chapter featuring heroes with the astonishing ability to shrink and grow. In the aftermath of "Captain America: Civil War," Scott Lang grapples with the consequences of his choices as both a Super Hero and a father. As he struggles to rebalance his home life with his responsibilities as Ant-Man, he's confronted by Hope van Dyne and Dr. Hank Pym with an urgent new mission. Scott must once again put on the suit and learn to fight alongside The Wasp as the team works together to uncover secrets from the past.

"Ant-Man and The Wasp" is directed by Peyton Reed and stars Paul Rudd, Evangeline Lilly, Michael Peña, Walton Goggins, Bobby Cannavale, Judy Greer, Tip "T.I." Harris,

David Dastmalchian, Hannah John-Kamen, Abby Ryder-Fortson, Randall Park, with Michelle Pfeiffer, with Laurence Fishburne, and Michael Douglas.

Kevin Feige is producing with Louis D'Esposito, Victoria Alonso, Stephen Broussard, Charles Newirth, and Stan Lee serving as executive producers. Chris McKenna & Erik Sommers, Paul Rudd, Andrew Barrer & Gabriel Ferrari wrote the screenplay. "Ant-Man and The Wasp" hits U.S. theaters on July 6, 2018.







### ANT-MAN / SCOTT LANG

After the events of "Captain America: Civil War," Scott is struggling to balance life as a Super Hero with his responsibilities as a father. While finishing the final days of his Sokovia enforced house arrest, Scott promises his family he will stay on the straight & narrow upon his release, for real this time. But mere hours from freedom, Hank comes to Scott with an urgent new mission. Unable to abandon Hank and Hope in their time of need, Scott decides to suit up, set things right, and get home in time before his parole officer checks in on him.



### THE WASP / HOPE VAN DYNE

After spending her life admiring her mother's work, Hope is now finally able to embrace the role she has been groomed to take on – The Wasp! Empowered with a new cutting-edge suit, Hope is making up for lost time as a Super Hero. She has never lost sight of the primary goal though – finding a way to get her mom, Janet van Dyne, back from the Quantum Realm. With she and Hank closer to a solution than they've ever been, the only question left remaining is whether or not she and Scott can become the duo they need to be to achieve their goal.



### GHOST

A mysterious figure whose name is feared and whispered amongst the criminal underworld because of her ability to phase through solid walls. No one is sure of Ghost's true identity or what she's after, but she seems awfully interested in Hank and Hope's latest tech. Her terrifying skillset makes her a truly formidable foe.



### HANK PYM

Despite being forced to take his research underground due to fears that his technology could fall into the wrong hands, Hank feels he's closer than ever to unlocking the secrets of the Quantum Realm and saving his wife, Janet. He is working with his daughter Hope's help and, against his better judgment, Scott. But Hank has made a lot of enemies over the years, and the closer he gets to the Quantum Realm, the closer his enemies get to him.



### JANET VAN DYNE

A scientist, engineer and the original Wasp. While on a secret mission with Hank Pym, Janet ultimately sacrificed herself to save the lives of millions, dooming herself to the Quantum Realm in the process. While escaping the Quantum Realm was previously thought to be impossible, after the events of Ant-Man, Hank and Hope have new reason to believe there may be a way to find and rescue Janet. But even if Scott, Hank and Hope find a way back in, after 30 years – questions remain – has Janet survived and how will they find her?

## INTRODUCTION



**D**uring the 1960's the brilliant scientist, Dr. Hank Pym, made an incredible discovery, Pym Particles. This scientific breakthrough was capable of increasing and decreasing the size of objects and even humans! Dr. Pym was able to harness the technology to create a custom suit that allowed him to become Ant-Man, a Super Hero with the ability to shrink down to the size of an insect. Today, the mantle of Ant-Man has been passed to Scott Lang who fights beside Hank's daughter Hope van Dyne, also known as The Wasp.

Now it's your turn to experience Hank Pym's incredible technology. By stepping into the "Ant-Man and The Wasp" Activity Packet, you'll gain a new and unique perspective to the unseen world around you. Imagine shrinking to the size of an insect, what amazing adventures would you have? You might communicate with ants, get an up-close look at the anatomy of a wasp or even venture into the Quantum Realm itself. You may even have to use your incredible power to save the world. Discover the adventure for yourself in the pages ahead and don't miss Marvel Studios' "Ant-Man and The Wasp" in theaters July 6.

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*What would it be like to see the world from the perspective of an insect?*

What would it be like to see the world from their perspective? So much of what happens in our daily lives goes unseen, especially the realm beneath our feet. Undetected by most humans, the insects that inspire Ant-Man and The Wasp are constantly helping the planet. Ants and wasps are *pollinators*—animals that move pollen from one flower to the next. Other pollinators include bees, beetles and even butterflies. By moving pollen to other plants, pollinators help grow food, including fruits, vegetables and even chocolate! Although they may seem frightening, these tiny animals play an important role by ensuring the planet has the resources needed to sustain life. Head to the next page to discover how you can gain the same perspective as Ant-Man and The Wasp by observing the tiny world of nature near you.

**F**rom far away a patch of grass or plot of dirt may not appear exciting, but with a closer look, nature can reveal extraordinary scenes of microscopic proportions. Step into the suits of Ant-Man or The Wasp, and follow the steps below to discover the incredible action taking place near you. Be careful, you may never look at the world the same again.



## 1 HEAD OUTDOORS

Grab a hula hoop or tie two ends of a long rope together to make a circle. Then, head outdoors to your backyard or a nearby park with an adult, and choose a spot to observe by placing your circle on the ground.

## 2 SURVEY YOUR SPOT

Get comfortable and survey your spot! Consider packing a snack, blanket, sunscreen, rain gear and even a magnifying glass to ensure your day outdoors is safe and enjoyable.

### 3 RECORD WHAT YOU FIND

What are the **smallest** and **largest** items you can find in your spot?

**SMALLEST****LARGEST**

What **living things** did you find in your circle?

What item did you find the **most** of? What about the **fewest**?

**MOST****FEWEST**

To learn more about insects  
and other amazing animals,  
visit [DisneyAnimals.com](http://DisneyAnimals.com)



# SEISMIC COMMUNICATION

## Can you speak the language of the ants?

**H**aving inherited the mantle of Ant-Man from Dr. Hank Pym, Scott Lang is able to change his size whenever he wears the Ant-Man suit, either shrinking or growing in order to fight alongside The Wasp. However, this unique ability is not the only power Scott has at his disposal. Using a communication device developed by Dr. Pym, Scott is able to communicate with and control insects using electromagnetic waves to stimulate their nerve centers. An earpiece, built into the Ant-Man helmet, allows Scott to work in harmony with ants, who help him during his unique missions, even allowing him to fly on their backs whenever the need arises.

Similar to the complex communication device used by Scott and Hope, ant species also have complex communication patterns, speaking to one another without even making a sound. Their primary communication method is done by producing chemical substances called *pheromones*. Pheromones send messages detected by other ants through their antennae, communicating that a new food source has been found or defensive action is needed. Ants will also communicate through vibrations, producing high-pitched chirps when rubbing body parts together. Carpenter ants and other species that inhabit trees will even knock their antennae on tree bark to warn their nest mates of a potential threat.

We may not have the same communication technology as Ant-Man or The Wasp, but by using ant communication techniques we can share coded messages with our friends and family. Head to the next page to find out how!

**A**nts communicate with each other through a variety of methods. Some species will even “speak” through vibrations, warning their colony of danger by knocking their antennae on a hard surface. Test your own sensory skills and use the key below to create a message to your friends. Once you learn the code, get creative and challenge yourself by communicating on or through different surfaces, like tables, walls and windows.



### KEY

- = KNOCK
- = SLAP

A	B	C	D	E	F	G	H	I
•	—	..	..	..	—	..	—	..
J	K	L	M	N	O	P	Q	R
..	..	..	..	..	..	..	..	..
S	T	U	V	W	X	Y	Z	
...	...	...	---	...	---	...	---	...

Cut along the dashed line and use one space to plan your message before you send it. Use the other space to decipher your friend's message.



### MY MESSAGE

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### MESSAGE FROM MY FRIEND

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# SUPER HERO SYMMETRY



German Wasp

## How can a wasp inspire a Super Hero's suit?

**A**s the daughter of Dr. Hank Pym and Janet van Dyne, the original Ant-Man and The Wasp, Hope van Dyne has the best traits from both of her parents. She is an expert across multiple fields of science and works hand-in-hand with her father on updates to the Ant-Man technology. After losing her mother at a young age, Hope sought relief through the study of martial arts, honing her focus and becoming a skilled fighter. All of these unique gifts make her perfectly suited to take on the mantle of The Wasp, a Super Hero with similar shrinking powers as Ant-Man but with the added ability of flight.

Wasps are an incredible species to study for inspiration and inventiveness, and it is no wonder why Dr. Pym utilized the insect in his design of Hope's suit. There are nearly 30,000 identified species of wasps, in almost every color imaginable. A wasp's anatomy allows it to be incredibly efficient, with a streamlined waist and narrow legs designed for subduing prey such as flies, caterpillars or spiders. Unlike bees, wasps can sting repeatedly and will fiercely protect their colony if disturbed. However, despite their aggressive appearance and reputation, wasps are incredibly beneficial to the earth and play an important role in nature. Wasps are the heroes of protecting crops and act as enforcers by controlling pest populations around the world. Just like Ant-Man needs his partner, The Wasp, for help, we too need these incredible species to protect the earth from harm.

### WASP ANATOMY

ANTENNAE

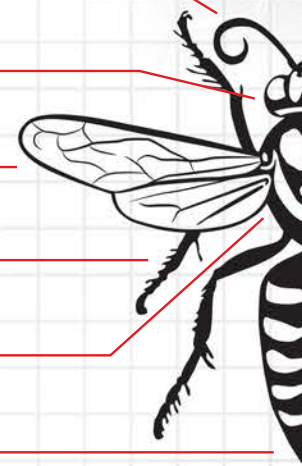
HEAD

WINGS

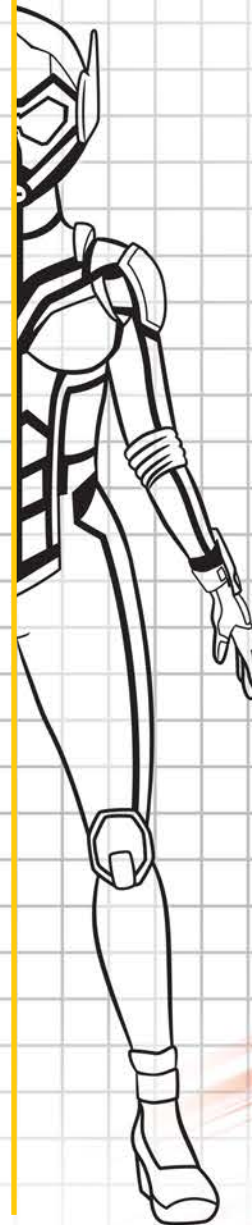
LEGS

THORAX

ABDOMEN



Insects, like ants and wasps, have bilateral symmetry, which means if a line was drawn down the center of their bodies, both sides would be identical. Use the line of symmetry below to fill in the other half of the wasp sketch, filling in the right side as identical to the left as possible. Then, head on to Hope's Wasp suit to see if you can complete the bilateral symmetry as part of Dr. Hank Pym's design.



Paper Wasp



# THE QUANTUM REALM



## Do you have what it takes to dive into the Quantum Realm?

The Quantum Realm is a vast and mysterious plane of existence, a reality where all concepts of time and space become irrelevant. It is filled with incredible sights, a world exploding with kaleidoscope imagery and color, but also danger. While on a secret mission, Janet van Dyne, the original Wasp, sacrificed herself to save the lives of millions, dooming herself to the Quantum Realm in the process where she's been lost ever since.

30 years later, Scott Lang ventured into the Quantum Realm wearing the Ant-Man suit, shrinking smaller and smaller into subatomic space. He was only able to return thanks to his quick thinking and use of a Pym Particle Disk in his regulator that brought him back to human size. Ant-Man proved that it was possible to travel and return from this unknown dimension, providing new reason to believe there may be a way for Hank and Hope to find and rescue Janet.

As futuristic as it may seem, the Quantum Realm isn't as far away as you might think. In fact, it may be on the tip of your nose right now. Scientists using the latest in microscopic technology are always gaining a better understanding of how atoms, unseen to our own eyes, function. Researchers use scanning electron microscopes to unveil inconceivable looks at everyday items. Magnifying up to one million times their size, bananas become alien planets and grains of salt turn into mountains larger in scale than anything found on Earth. These discoveries have not only given us out-of-this-world photography, but they have helped scientists gain a better understanding of microorganisms and their importance to the health of our planet.

Do you have what it takes to dive into the Quantum Realm and attempt to identify familiar items? Head to the next page to find out.

The Quantum Realm is filled with unbelievable sights of microscopic size. You never know what everyday items you may be observing as you continue to shrink smaller and smaller. Complete the challenge below by identifying the magnified items.



Try to see things in a different way around your house and backyard. Use a magnifying glass or take a picture and zoom in. Nature is full of beautiful details that you might only see when you take a closer look.

Answer key:  
1. Flower, 2. Kiwi, 3. Walnut, 4. Strawberry,  
5. Leaf, 6. Banana, 7. Cat Eye, 8. Monarch



# HEROES IN ACTION



## How can partnerships make us stronger?

**C**onfronted with a new mission from Dr. Hank Pym and Hope van Dyne, Ant-Man must learn to fight alongside The Wasp to uncover secrets from the past. When Scott and Hope join forces, their combined powers allow them to work in tandem, shifting back and forth in size, speed and flight while using quick instincts to combat Ghost, a mysterious villain who stole Dr. Hank Pym's technology for sinister purposes. Similar to Ant-Man and The Wasp's team-up, nature is filled with unique relationships between uncommon species that are referred to as *symbiosis*. One type of symbiotic partnership is a mutualistic relationship, or interaction between animals in which each individual benefits from the other. These mutualistic relationships can be for cleaning purposes, as when a smaller species feeds off the parasites of a larger animal. Other mutualistic relationships form for protection, with each animal providing the other with safety from other predators. Ant-Man and The Wasp have a similar bond, as they keep each other safe when fighting individuals who wish them harm.

An example of mutualism involves the yellow-billed oxpecker—the birds eat what they find on the skin of large mammals, helping to keep their hosts tick-free.



**W**atch Ant-Man and The Wasp interact and protect each other by creating your own action-packed scene using the steps below.

### GATHER THESE SUPPLIES:

(Ask an adult for help and try to recycle materials when possible)

- Clothing hanger
- Scissors
- Sticks/branches from outdoors (or pencils)
- String
- Hot glue (optional)

**1** Use scissors to cut each character out along the dotted lines. Use a pencil to create a hole at the top of each cutout at the X.

**2** Use string to tie the branches or pencils together and hang them from the coat hanger. You can use hot glue if you need a stronger hold.

**3** Use your imagination and design the layout of the mobile. You can include as many of the cutouts as you want, creating a scene from Ant-Man and The Wasp.

**4** Once you have your layout, tie each of the cutout characters onto the levels of the mobile.







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