



HIVE GUARDIANS: THE FOUNDERS

Science + Challenge Card Collection · Series 1

Hi! I'm Meli.

Your Guide to the Hive Guardians Universe.

I'm here to introduce you to eleven extraordinary Guardians and the science behind why each exists.

Every Guardian protects one domain.
Every card gives you one science fact
and one challenge, for you.

Because knowledge without action
is just information.

The Hive wins when millions take
one small step. Together.

ABOUT THE HIVE GUARDIANS

Non-human guardian entities formed
from the materials of their domain.
Forces of nature, not superheroes.

11 Guardians. 11 domains.
One mission: defend the planet.



CARBON CAPTAIN

Guardian of Clean Energy

THE SCIENCE:

Sri Lanka reached 63.2% renewable electricity in 2024. Racing toward 70% by 2030.

YOUR CHALLENGE:

Switch off one device at home you leave on standby. Tonight.

"The grid remembers every choice. I make sure the next one is clean."



RECYLONE

Guardian of Waste Reduction

THE SCIENCE:

The world generates 2.1 billion tonnes of waste every year. Less than 20% is ever recycled.

YOUR CHALLENGE:

Sort your household waste into 3 groups today: wet, dry, and hazardous.

"Every piece sorted is a storm I turn back."



BLOOMRA

Guardian of Biodiversity

THE SCIENCE:

Earth is losing species 1,000x faster than the natural rate. Biodiversity loss is irreversible.

YOUR CHALLENGE:

Plant one native species this week.
In your garden, school, or community space.

*"Life does not wait.
Neither do I."*



HIVE GUARDIANS · SCIENCE + CHALLENGE

COOLSPIRE

Guardian of Cooling Efficiency

THE SCIENCE:

Air conditioning now accounts for 10% of global electricity use. By 2050 that number will triple.

YOUR CHALLENGE:

Raise your AC thermostat by 1°C today. Small shift, massive impact at global scale.

"Heat does not vanish. It only moves. I decide where it goes."



HIVE GUARDIANS · SCIENCE + CHALLENGE

GLOWTHORN

Guardian of Renewable Power

THE SCIENCE:

Renewable energy is the fastest-growing power source on Earth. We could power the world twice over.

YOUR CHALLENGE:

Check your energy bill this month. Identify your single biggest energy drain. Then cut it.

*"The sun gives. The wind carries.
I waste nothing."*



THORNWALL

Guardian of Forests

THE SCIENCE:

The world loses 15 billion trees every year. We have 46% fewer trees than before human civilisation began.

YOUR CHALLENGE:

Go paperless for one week.
Switch one paper habit
to digital today.

*"Every tree that falls is a wall
that breaks. I am what holds."*



HIVE GUARDIANS · SCIENCE + CHALLENGE

CORALYNN

Guardian of the Reefs

THE SCIENCE:

Half the world's coral reefs have been lost since 1950. At current warming rates, 90% will be gone by 2050.

YOUR CHALLENGE:

Refuse one single-use plastic item today. Plastic killing reefs starts on land.

"The reef is alive. My job is to keep it that way."



MISTPEAK

Guardian of Water

THE SCIENCE:

Freshwater is only 3% of Earth's water. By 2025, half the world's population faced water scarcity.

YOUR CHALLENGE:

Fix one dripping tap this week. A dripping tap wastes up to **20,000 litres** per year.

*"Water is not wasted by rivers.
It is wasted by us."*



ROOTARA

Guardian of Soil

THE SCIENCE:

We lose one football field of fertile soil every five seconds. At current rates, only 60 harvests remain.

YOUR CHALLENGE:

**Start a compost bin this week.
Kitchen scraps become soil,
not landfill.**

*"Healthy soil is not dirt. It is
the difference between eating
and not."*



HIVE GUARDIANS · SCIENCE + CHALLENGE

TIDEWARDEN

Guardian of the Coast

THE SCIENCE:

Mangroves protect 300 million people from coastal flooding. We have lost 50% of the world's mangroves in the last 50 years.

YOUR CHALLENGE:

Join or organise a beach or waterway clean-up in your community this month.

"I hold the tide. You hold the line on land."



HIVE GUARDIANS · SCIENCE + CHALLENGE

BREEZEKIN

Guardian of Clean Air

THE SCIENCE:

Air pollution kills 7 million people every year — more than AIDS, tuberculosis, and malaria combined.

YOUR CHALLENGE:

Leave the car at home one day this week. Walk, cycle, or take public transport.

*"Clean air is not a luxury.
It is a right I will defend."*



Join the Hive.

Protect the Planet.

The Hive Guardians Universe is built on one idea: planetary change starts with millions of small actions.

Every card gives you one science fact and one challenge. That's it.

One action. Done by enough people. That's how the Hive wins.

SustainaBee measures, verifies, and celebrates every action your community takes. You decide what happens next.

SERIES

1

11 CARDS

