

# CHAPTER 5-Part 1

## Metaphysics



# This Week's Learning Outcomes

**Explain** the relationship between man and nature in the context of ancient cosmology and current ecology



# Man & Nature



A man with short brown hair and glasses, wearing a black hoodie, stands in a field of tall yellow flowers. He is looking upwards with his head tilted back. The background features rolling green hills and mountains under a blue sky with scattered white clouds. The foreground is filled with out-of-focus yellow flowers.

Man's Relationship with Nature

Man's Responsibilities





وَلَقَدْ مَكَّنَّاكُمْ فِي الْأَرْضِ وَجَعَلْنَا لَكُمْ فِيهَا مَعِيشًا قَلِيلًا مَّا تَشْكُرُونَ ﴿١٠﴾

We have indeed established you on earth and provided you with a means of livelihood. 'Yet' you seldom give any thanks.

— Dr. Mustafa Khattab, the Clear Quran

And We have certainly established you upon the earth and made for you therein ways of livelihood. Little are you grateful.

— Saheeh International

## Genesis 1

28 And God blessed them, and God said unto them, Be <sup>a</sup>fruitful, and <sup>b</sup>multiply, and <sup>c</sup>replenish the <sup>d</sup>earth, and subdue it: and have <sup>e</sup>dominion over the fish of the sea, and over the fowl of the air, and over every living thing that moveth upon the earth.



The responsibility that we have is immense, yet we must also **understand nature** to properly protect it.





**universe**

# Activity I

What's the  
Universe to  
You?



Using **ONE WORD**, describe what the universe is to you.



# Ecology & Cosmology



# Ecology

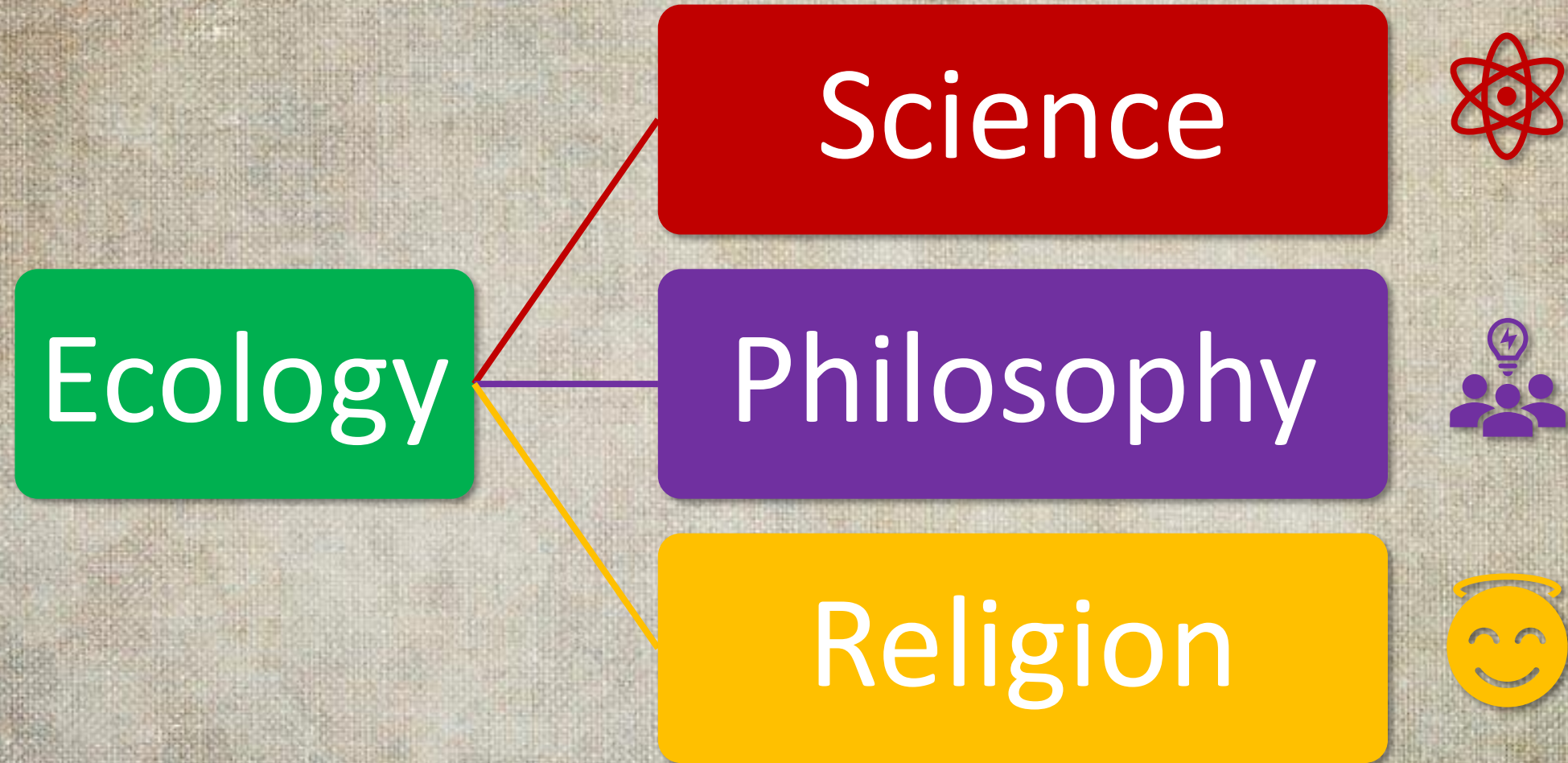


oikos = home

# Ecology

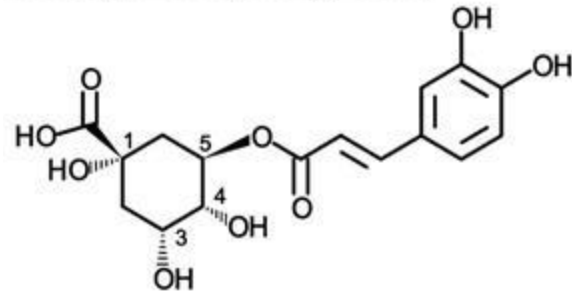
logi = knowledge



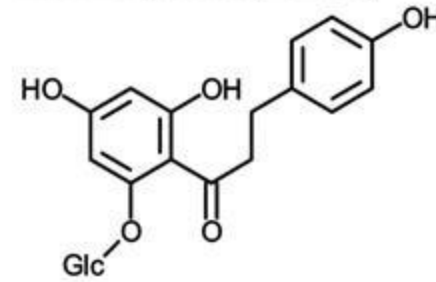




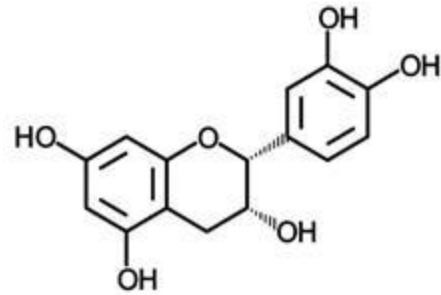
Hydroxycinnamic acids  
5-Caffeoylquinic acid (Chlorogenic acid)



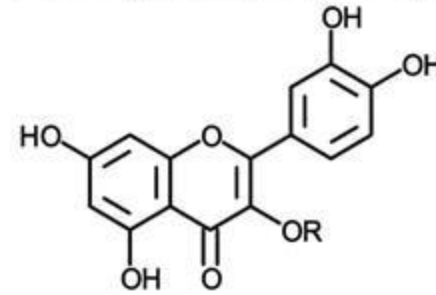
Dihydrochalcones  
Phloretin-2'-glucoside (Phloridzin)



Flavan-3-ols  
(-)-Epicatechin



Flavonols  
Quercetin (R=H) and  
Quercetin-glycosides (R=sugar moiety)

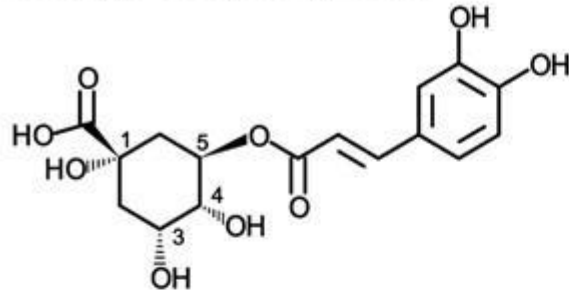


Procyanidin B2

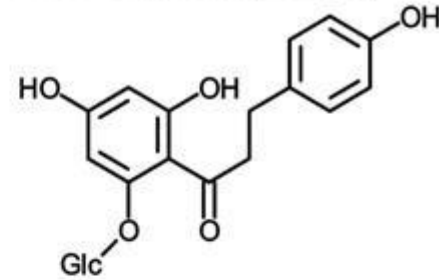




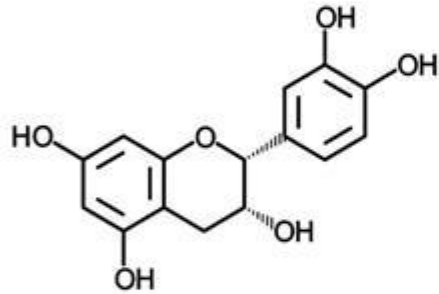
Hydroxycinnamic acids  
5-Caffeoylquinic acid (Chlorogenic acid)



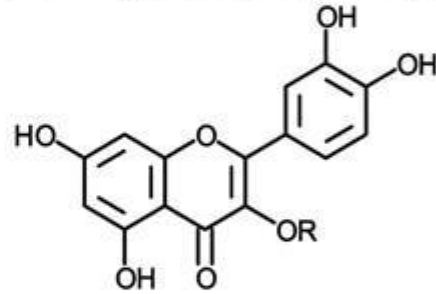
Dihydrochalcones  
Phloretin-2'-glucoside (Phloridzin)



Flavan-3-ols  
(-)-Epicatechin



Flavonols  
Quercetin (R=H) and  
Quercetin-glycosides (R=sugar moiety)



Procyanidin B2



Hydroxycinnamic acids  
 5-Caffeoylquinic acid (chlorogenic acid)  
 p-Coumaroylquinic acid  
 Flavan-3-ols/procyanidins  
 Procyanidins B2  
 Procyanidins C1  
 (-) Epicatechin  
 (+) Epicatechin  
 Oligomeric procyanidins  
 Flavonols  
 Dihydrochalcones  
 Anthocyanins













**break time**





universe



# Cosmology

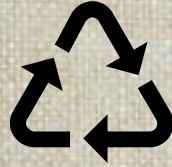


cosmo = universe

Cosmology

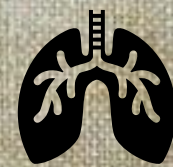
logi = knowledge





Physics

Metaphysics





# Metaphysics



**meta = above, over**

# **Metaphysics**

**physics = the material universe**



philosophical

religious

# Metaphysics



## Activity II

To Meta or  
Not, That is  
the Question



Looking at these questions, **DETERMINE**  
whether they are part of metaphysics.



# Question 1

Is happiness just chemicals flowing through your brain or something more?



# Question 2

What is time?



# Question 3

How does gravity work?



## Question 4

Does sound happen if nothing is  
present to hear it?



# Question 5

How did the universe begin?



# Question 6

Does fate exist?



# Question 7

Can artificial intelligence be creative?



## Question8

If artificial intelligence gained sentience, should it be treated as alive?



## Question 9

Are people born inherently good,  
neutral, or bad?



## Question 10

Is there a purpose to the universe?



# Take Home Questions

1. Explain the relationship between man and nature in the context of ancient cosmology and current ecology.