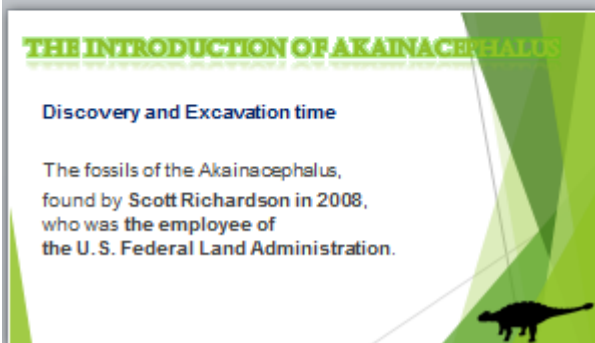
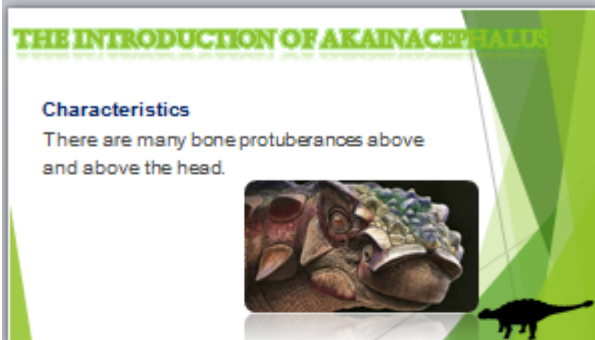
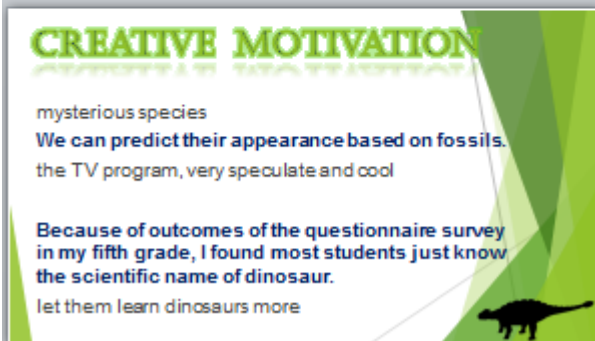
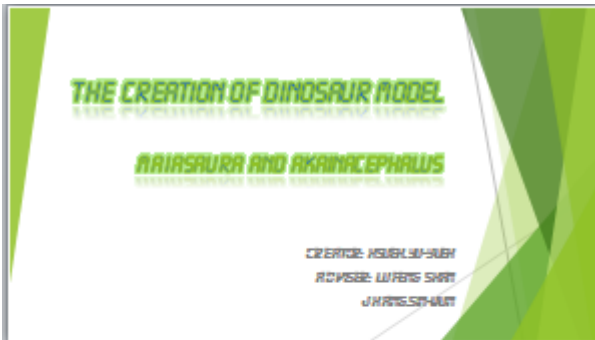


# 恐龍模型製作-釘頭龍、慈母龍

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指導者: 盧楓山 (Lu, Feng-Shan) 、張馨文 (Jhang, Sin-Wun)



Good afternoon, everyone.

MY name is HSUEH, YU-YUEH

This is my topic.

**The creation of dinosaur model-Maiasaura and Akainacephalus**

My Adviser: LU FENG SHAN and JHANG, SIN-WUN

**Creative Motivation**

**Dinosaurs are mysterious species.**

We can predict their appearance based on fossils.

**I was interested in dinosaurs because the TV program I saw when I were eight years old.**

I like dinosaurs because they were very speculate and cool.

Because of outcomes of the questionnaire survey in my fifth grade, I found most students just know the scientific name of dinosaur, **I decided to make dinosaur model. Let them learn dinosaurs more.**

**The introduction of Akainacephalus**

**Characteristics:**

There are many bone protuberances above the mouth and above the head.

**Discovery and Excavation time:**


found by Scott Richardson in 2008, who was the employee of the U.S. Federal Land Administration

## TOOLS

Description	Pictures		
Tools	Marker	American soil	Cutting mat
	Ruler	Pliers	Pliers
	Aluminum wire		

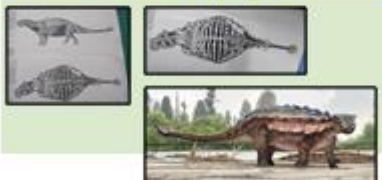
## BEFORE MAKING DINOSAUR MODEL

1. Search for data : Online - books
2. Read the information
3. Organize it



## PROPORTION

Print the bone diagram and reference diagram in the desired proportion



## COMMON CREATIVE PHASE

Akumaccephalus	Manasaura	
		<b>phase1</b> Finish the head and torso
		<b>phase2</b> Finish the tail, limbs and skin
		<b>phase3</b> color it

### Tools

Marker

Ruler

Aluminum wire

Pliers

American soil

Cutting mat

### Before making dinosaur model

1. Search for data: Online, books
2. Read the information
3. Organize it

### Proportion

Print the bone diagram and reference diagram in the desired proportion

### Common creative phase

**phase1** Finish the head and torso


**phase2** Finish the tail, limbs and skin

**phase3** color it

**START**  
 A aluminum wire with the length of the spine cut  
 (1cm in the place connected to the skull)

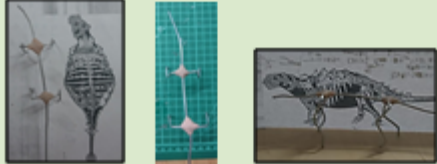


Cut the length of the front and rear limbs of the aluminum wire  
 Each joint should be marked in the bone map and aluminum on line  
 A aluminum wire in the middle to add 1 cm or so (to be tied to the spine)



**PHASE 1**  
 Finish the head and torso

Tie the front and rear limbs  
 Add the American soil to hold the connection  
 Put in the oven  
 (100-110 degrees bake for 15-20 minutes,  
 static cooling until the oven will not be warm)



**START**

Aluminum wire with the length of the spine cut

Cut the length of the front and rear limbs of the aluminum wire, each joint should be marked in the bone map and aluminum on line,

**Phase 1** Finish the head and torso

Tie the front and rear limbs  
 Add the American soil to hold the connection  
put in the oven

Make the width and shape of the back  
Put it in the oven



## PHASE 2

Finish the tail, limbs and skin

Wrap the limbs up to the part of the tail  
A thin layer of the American soil  
Put them in the oven



Make the thickness, shape of the belly  
and the rudiment of the tail hammer  
Put it in the oven



Make the width and shape of the back

**Phase 2** Finish the tail, limbs and skin

Wrap the limbs up to the part of the tail

A thin layer of the American soil

Make the thickness, shape of the belly and the rudiment of the tail hammer



Make the ball of the eye-clay  
Make eyelids on the skull



Make the thickness of its tail



Drill a hole in the skull



Make its neck    Stick its head

The tattoo, angle, chin nose, and transverse bone protrusion above the mouth are made.



Make a tattoo of the skin on the back

Put it in the oven



## LEGS

Make the shape of the thigh

Put it in the oven



Put the muscles on its calf up.



Make its toes

Put them in the oven.



Make the skin tattoo of the back

Put it in the oven



The tattoo, angle, chin nose, and transverse bone protrusion above the mouth are made.

Make a tattoo of the skin on the back

### Legs

Make the shape of the thigh

Put the muscles on its calf up.

Make its toes

Make the skin tattoo of back

## SKIN

Draw some patterns on its stomach and feet that look like leather.



## PHASE 3

color it



## DIFFERENCES OF MAIASAURA AND AKAINACEPHALUS

### THE INTRODUCTION OF MAIASAURAS

#### Age of existence

Maiasaura has a large duck beak

living in the Cretaceous  
about 74 million years ago



### skin

Draw some patterns on its stomach and feet that look like leather.

phase3 color it

Differences of  
Maiasaura and Akainacephalus

The introduction of Maiasaurais  
Age of existence

Maiasaura has a large duck beak  
living in the Cretaceous  
about 74 million years ago.

## THE INTRODUCTION OF MAIASAURAS



### Characteristics

The face of a Maiasaura looked like a duck's face.

It had no teeth in its beak, but it had teeth on both sides of its mouth.



## THE INTRODUCTION OF MAIASAURAS

### Characteristics

Maiasaura walked on four legs, ran with two legs, and they ran fast.

The Maiasaura gave birth to the little dinosaur in his nest and looked after her children.



## PHASE 2

### Finish the tail, limbs and skin



Make a thin piece of the width and shape of the belly  
Put it in the oven

Make the thickness and shape of stomach  
and the tail  
Put it in the oven

### Akainacephalus

Make the width and shape of the back  
Put it in the oven



## Characteristics

The face of a Maiasaura looked like a duck's face.

It had no teeth in its beak, but it had teeth on both sides of its mouth.

Maiasaura walked on four legs, ran with two legs, and they ran fast.

The Maiasaura gave birth to the little dinosaur in his nest and looked after her children.

## Phase2

### Finish the tail, limbs and skin

Make a thin piece of the width and shape of the belly

Make the thickness and shape of stomach and the tail

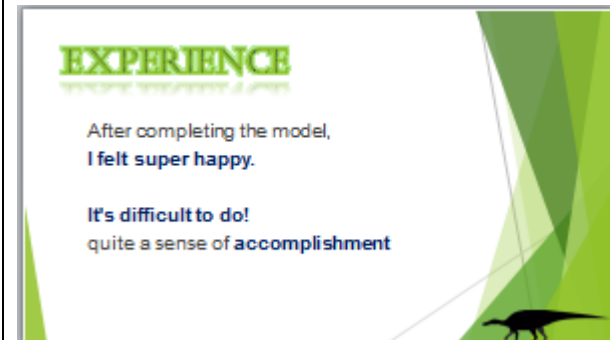
This picture is when I made the **back of Akainacephalus.**





**phase3 color it**

Pull up the pigment with talcum powder according to the environment and reference map of the time.



**Experience**

After completing the model, I felt super happy, this lesson had cost me a lot of time, not only to take photos, to make models, but also to make a presentation. It's difficult to do!



Although the practice of Maiasaura and Akainacephalus were very complicated, it is quite a sense of accomplishment.

**Thanks**

Thank my teachers, Miss. Jhang helped me to contact Mr. Lu. Mr. Lu taught me how to make dinosaur models. Miss. Jhang taught me how to make a presentation.



And my parents took me to studios in Banqiao.

**Expectations**

In the future, I wish my skill more progressive and make dinosaur models more sophisticated in order to let more people know dinosaurs better.

## The product of my dinosaur model



## REFERENCE

1. 維基百科《恐龍》  
<https://zh.wikipedia.org/wiki/%E6%81%B9%E9%BE%99>
2. 維基百科《恐龍文藝復興》  
<https://zh.wikipedia.org/wiki/%E6%81%B9%E9%BE%8D%E6%96%87%E8%97%9D%E5%BE%A9%E8%88%B3>
3. 為了保護恐龍化石·古生物學家致告特朗普政府！  
<https://zhuanlan.zhihu.com/p/40985069>  
恐龍大特寫(人類文化出版)



**THANK YOU!**  
(THANK YOU!)

## Reference

Three websites

And this book

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Thank for your listening!