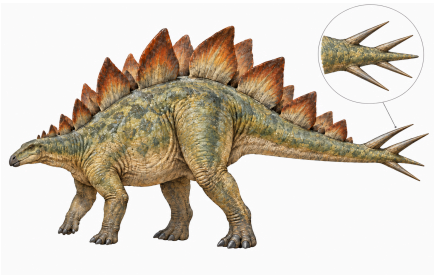
# 剑龙

观察卡

选1–3项试试；可指、说、画，书写可选。

## 1 · 看一看

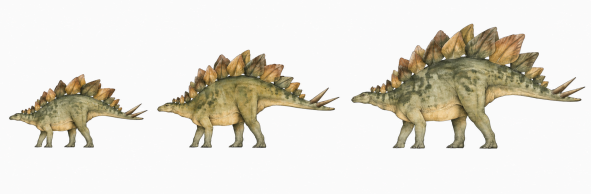
指一指背板和尾刺。它们的位置、形状有什么不同?



复原图；尾端有俯视细节，颜色为插画选择。

## 2 · 选一选

沿图说出成长顺序。图的大小能告诉我们确切年龄吗?



成长顺序示意，不是年龄或比例尺。

能确定　不能确定

## 3 · 选一选

谁吃植物？哪条关系是“可能”？再说一件我们还不知道的事。



植物、剑龙、异特龙；食物关系见知识卡。

剑龙吃植物　背板用途完全确定

## 4 · 写一写

在知识卡找到“骨板”。读一读，再选着写；也可以只说。

骨板

## 5 · 画一画

画一处背板或尾刺细节，标出你观察到的两个特点。

## 6 · 记一记

我从图中看到：_____

我还不能确定：_____

我想怎样找证据：_____（可画或口述）

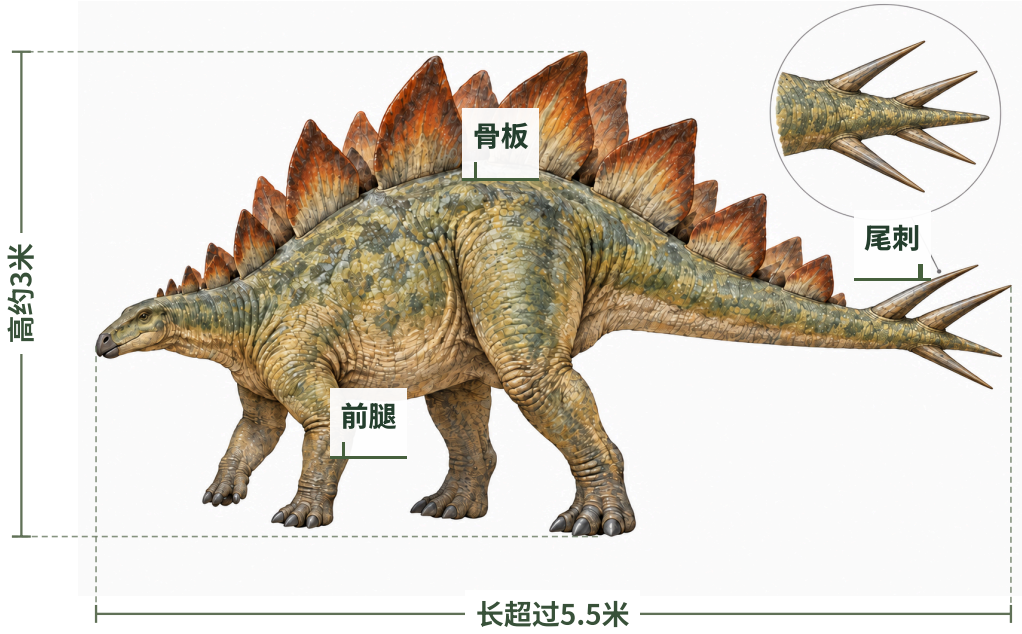
# 剑龙

知识卡

## 侏罗纪的食草恐龙

剑龙生活在侏罗纪晚期，以植物为食。Apex生活在约1.5亿年前。

### 背板与尾刺




**其他标本长度可达9米**

高、长以伦敦未成年陈列骨架为例 · 插画非测量图

- **背部：**骨板
- 前腿短，后腿长
- 标本与个体大小不同
- **尾端：**尖刺；小图为俯视
- 复原图；颜色为插画选择
- 不能用体长单独判断年龄

**环境 · 以伦敦标本为例**

- **地点：**今美国怀俄明州
- 非所有剑龙的唯一生境
- 较干旱；蕨类、苏铁类、木贼、部分针叶树

## 繁殖 · 卵中的下一代

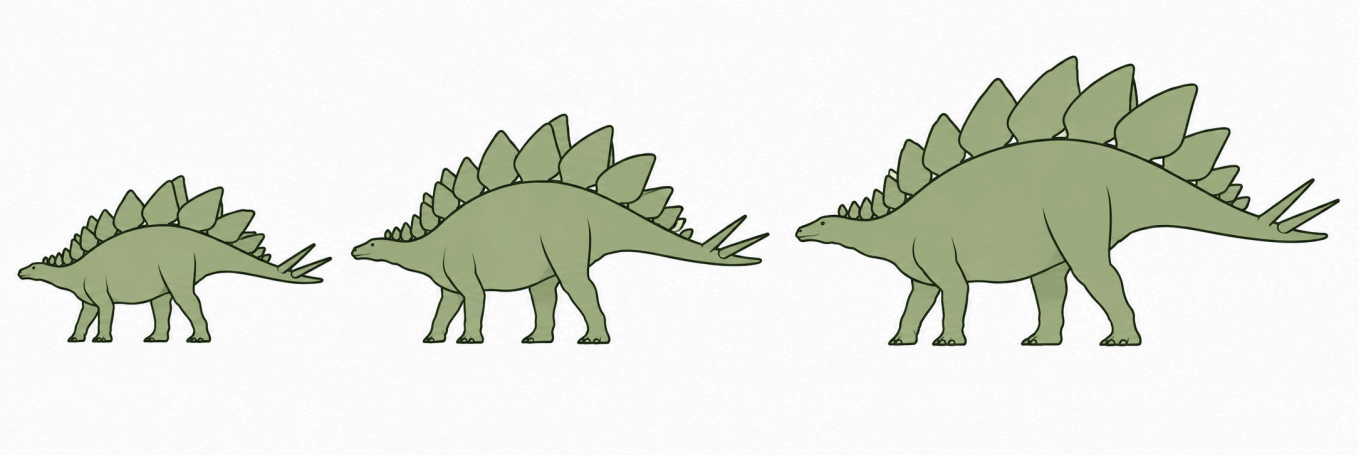
产卵 → 胚胎发育 → 幼体孵化

- **依据：**恐龙类群知识推断，非剑龙巢穴复原
- **部分已知:** 本卡未确认：剑龙蛋形、每窝卵数、育幼方式

# 剑龙

知识卡

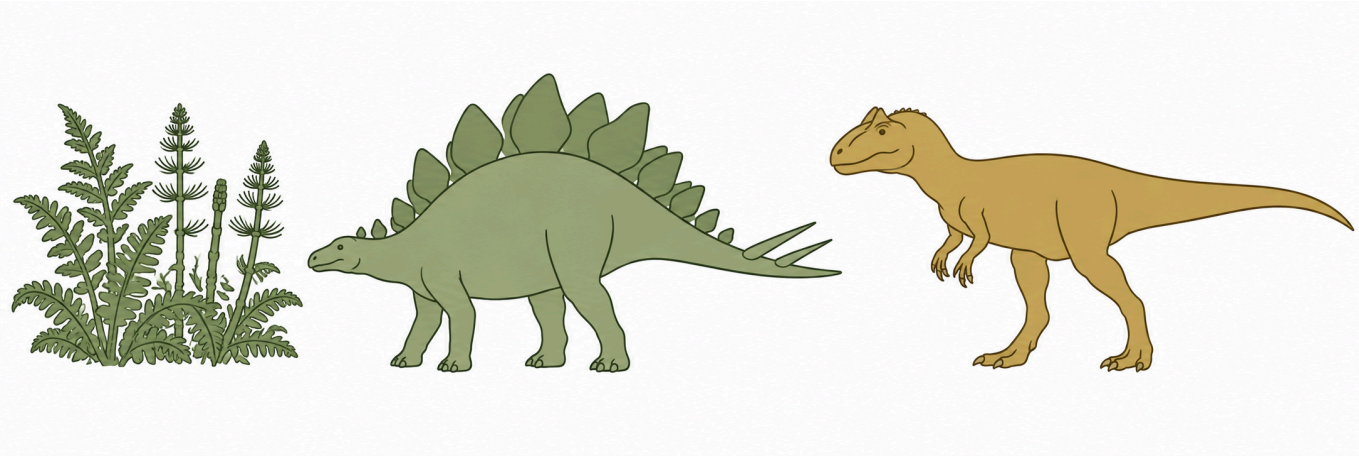
## 生长的三个阶段



**幼体** → **亚成体** → **成年**

- 生长时，部分骨缝逐渐闭合
- **伦敦标本：**骨缝未全合，仍在生长；确切年龄未知
- **部分已知:** 阶段有骨骼证据；图非精确外形/比例

## 食物关系



**植物** → **剑龙** • • • → **异特龙（可能）**

- **箭头：**食物 → 取食者
- **部分已知:** 虚线＝可能捕食
- 并非每只剑龙的结局

- **化石骨骼：**复原的依据；插画本身不是证据
- **真实颜色：**无直接证据
- **背板：**可能用于展示；作用仍在研究

资料：AMNH · NHM · Hayashi 2012

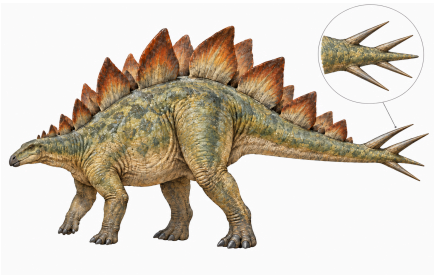
# Stegosaurus

Observe

Choose 1–3 tasks. Point, say or draw; writing is optional.

## 1 · Look

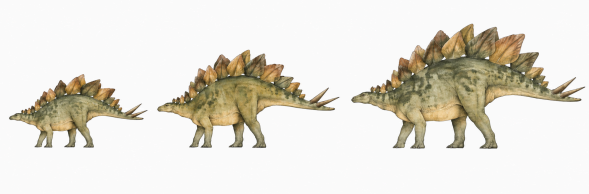
Point to the plates and tail spikes. How do their positions and shapes differ?



Reconstruction with a tail-tip inset; colors are illustration choices.

## 2 · Choose

Name the growth stages. Can picture size tell us an exact age?



Growth sequence, not an age or size scale.

Yes | No

## 3 · Choose

Who eats plants? Which link is possible? Name an unknown.



Plants, Stegosaurus, Allosaurus; arrows on the knowledge card.

Eats plants | Plate role is certain

## 4 · Write

Find “Plates” on the knowledge card. Say it; write it if you wish.

Plates

## 5 · Draw

Draw a plate or tail-spike detail. Mark two features you notice.

## 6 · Record

I notice: ____

I am not sure about: ____

I could look for evidence by: ____ (or draw/say)

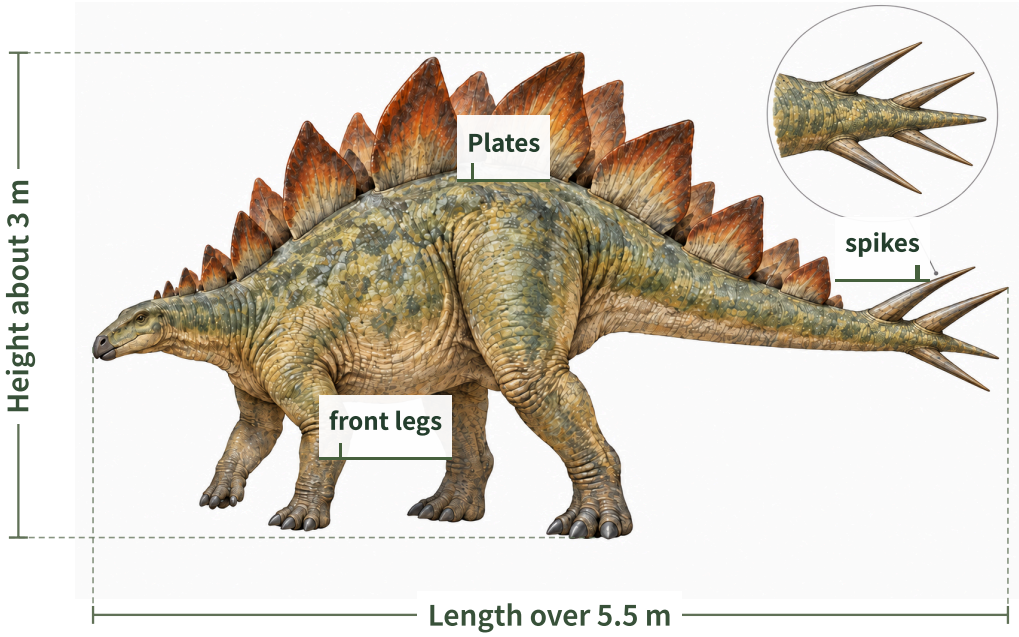
# Stegosaurus

Discover

## A Jurassic plant eater

Stegosaurus ate plants in the Late Jurassic. Apex lived about 150 million years ago.

### Plates and spikes




**Other specimens reach up to 9 m long**

Height and length: London immature mounted skeleton • Not a measurement drawing

- **Back:** bony plates
- Shorter front legs, longer hind legs
- Sizes vary among specimens
- **Tail tip:** spikes; inset from above
- Reconstruction; illustrative colors
- Length alone cannot establish age

### Habitat • London specimen

- **Location:** Wyoming, USA
- Not the only Stegosaurus habitat
- Fairly dry; ferns, cycads, horsetails, some conifers

## Reproduction • young from eggs

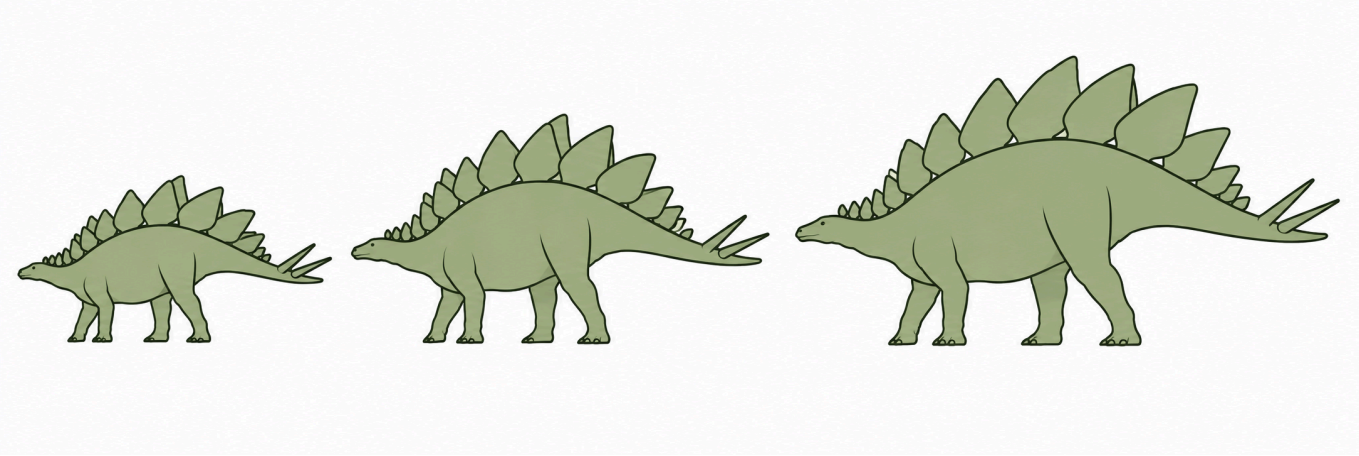
**Egg laying** → **Embryo develops** → **Young hatches**

- **Basis:** inference from dinosaurs, not a Stegosaurus nest reconstruction
- **Partly known:** Not established here: Stegosaurus egg shape, clutch size or care

# Stegosaurus

Discover

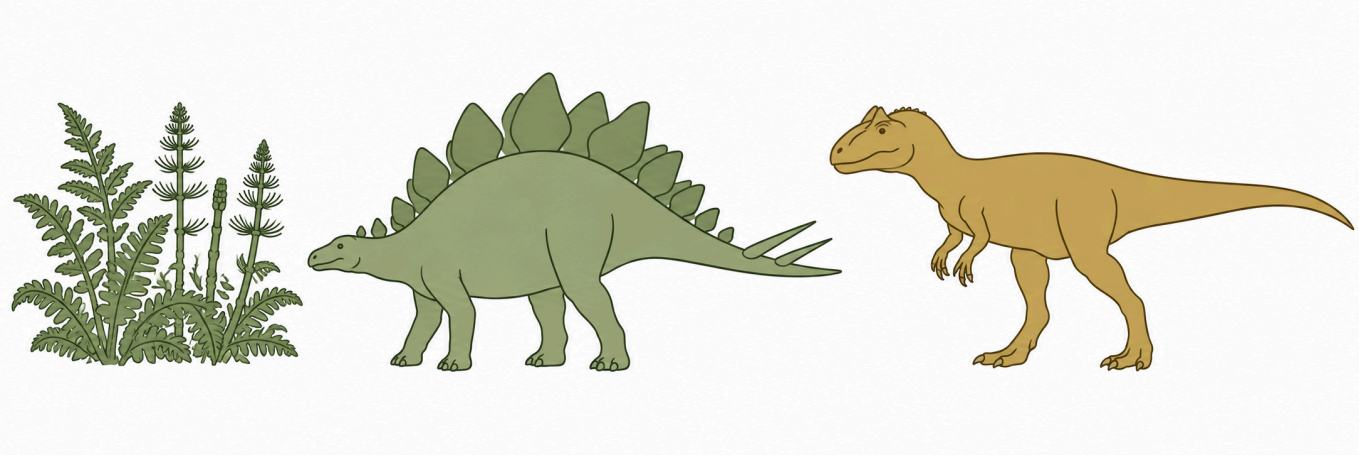
## Three growth stages



**Juvenile** → **Subadult** → **Adult**

- Some bone gaps close during growth
- **London:** some bone gaps open; growing; exact age unknown
- **Partly known:** Bone-supported stages; shapes and scale are schematic

## Food links



**Plants** → **Stegosaurus** • • • → **Allosaurus**

- **Arrows:** food → eater
- Not every individual’ s fate
- **Partly known:** Dotted = possible predation

- **Fossil bones:** evidence for reconstruction; pictures alone are not evidence
- **Actual colors:** no direct evidence
- **Plates:** possible display; function still studied

Sources: AMNH • NHM • Hayashi 2012