

**DICOT LEAF  
LAMINA**



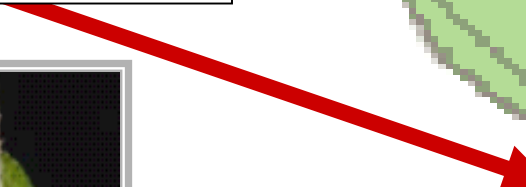
**PHOTOSYNTHETIC  
BLADE**

**DICOT LEAF  
LAMINA**

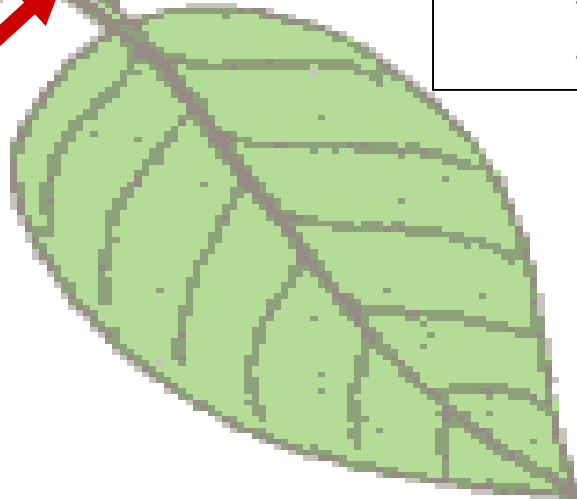
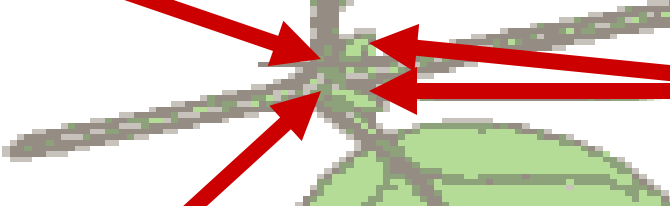
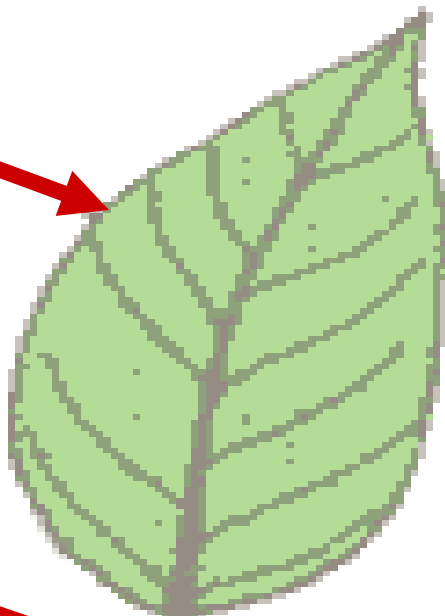
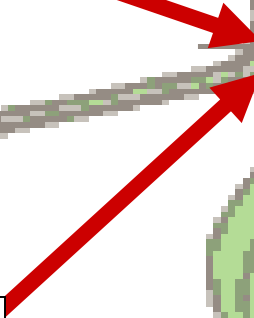
**LAMINA**



**PETIOLE**



**STIPULES  
ABSENT**



**SIMPLE  
LEAF**

**LEAF**

**AXILLARY  
BUDS**

**LEAF**



# COMPOUND DICOT LEAF

# **COMPOUND DICOT LEAF**



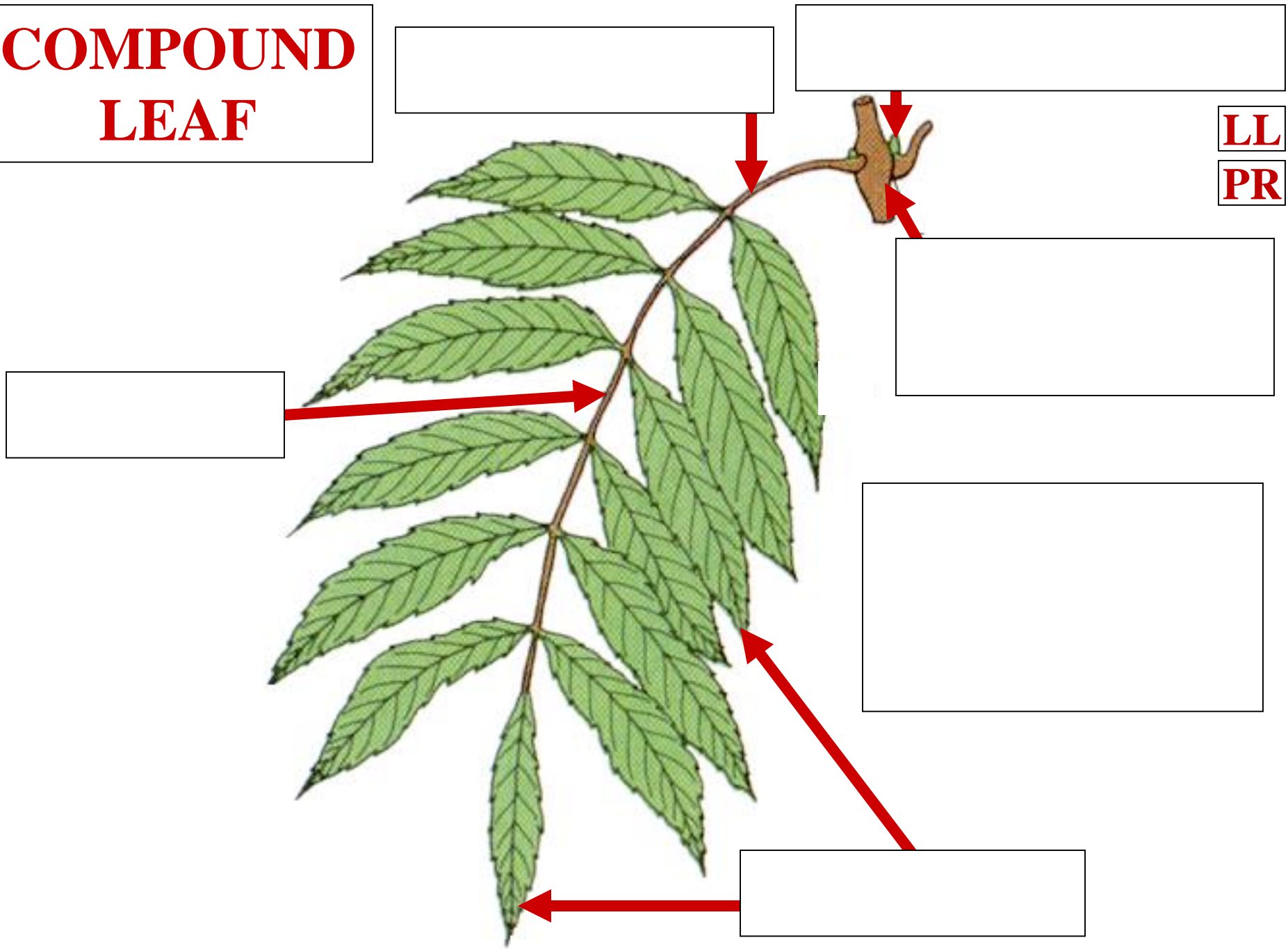
**DICOT LEAF**  
**COMPOUND LEAF**



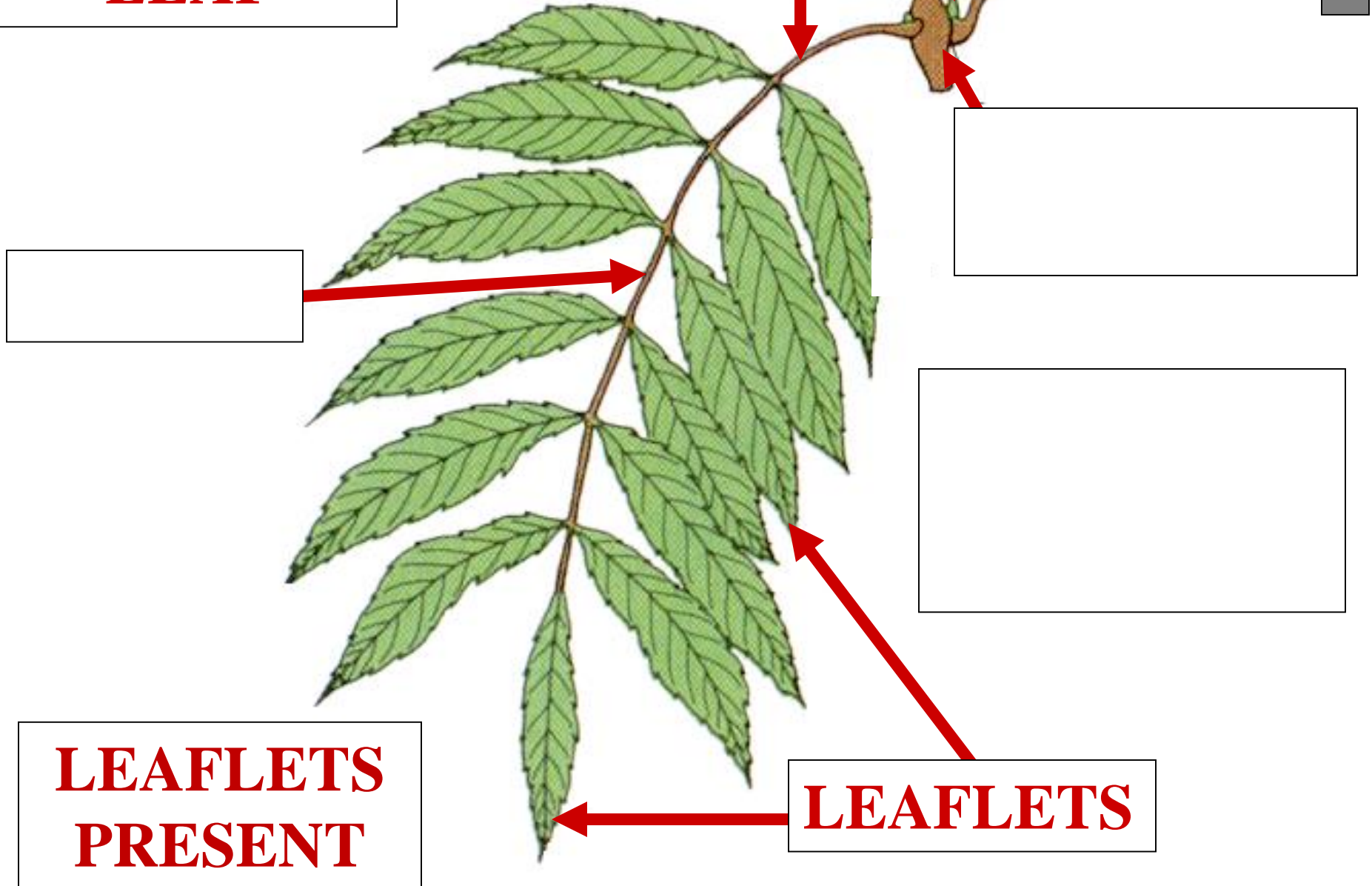
**LEAFLETS PRESENT**

**DICOT LEAF**  
**COMPOUND LEAF**

# COMPOUND LEAF



# COMPOUND LEAF



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**LEAFLETS  
PRESENT**

**LEAFLETS**

# COMPOUND DICOT LEAF TYPES

**COMPOUND  
DICOT LEAF  
TYPES**

**PINNATELY COMPOUND LEAF**

**COMPOUND  
DICOT LEAF  
TYPES**



# **COMPOUND DICOT LEAF TYPES**

**PINNATELY COMPOUND LEAF  
PALMATELY COMPOUND LEAF**

# **COMPOUND DICOT LEAF TYPES**

**PINNATELY  
COMPOUND  
DICOT LEAF**

**PINNATELY  
COMPOUND  
DICOT LEAF**

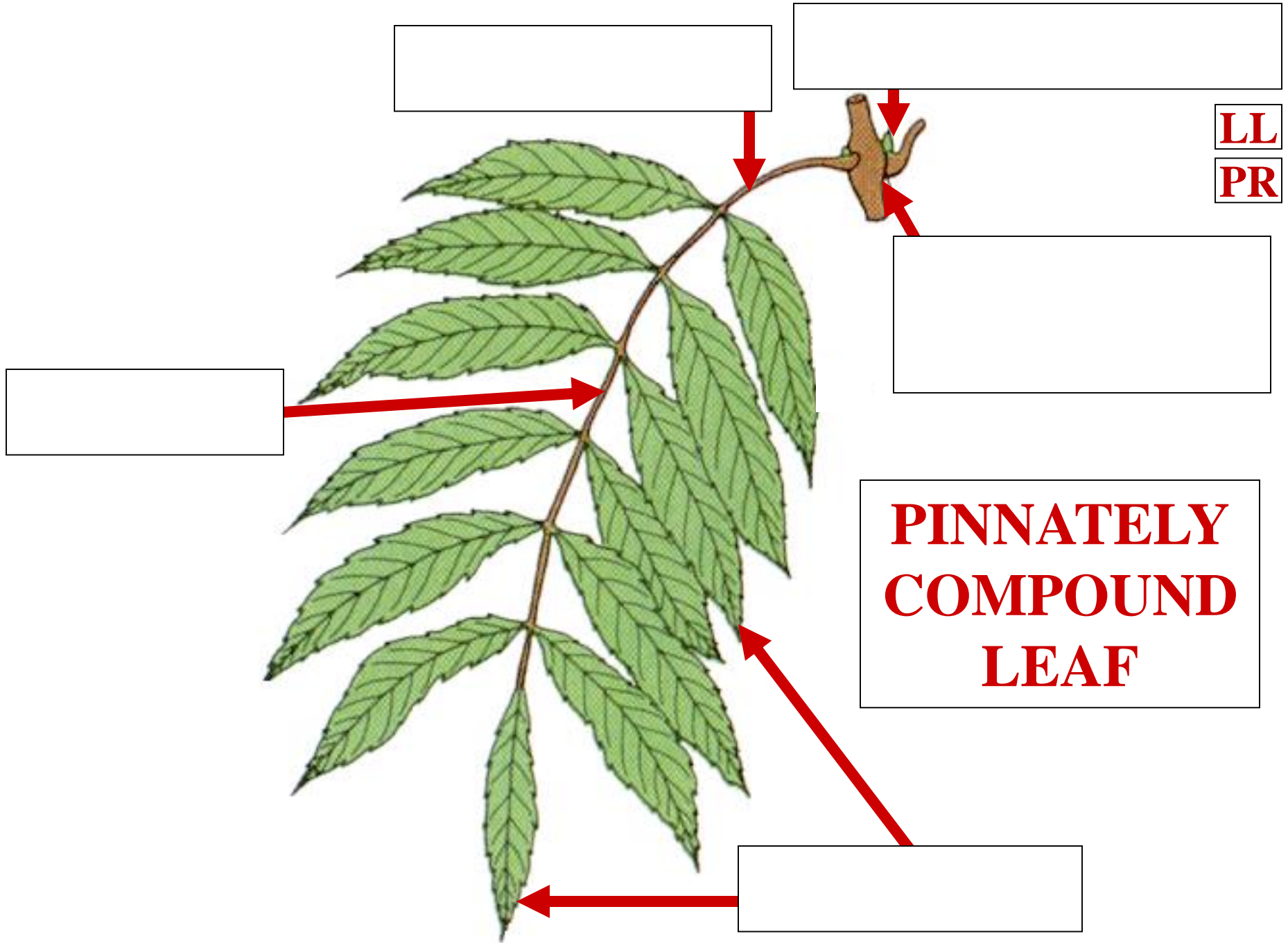


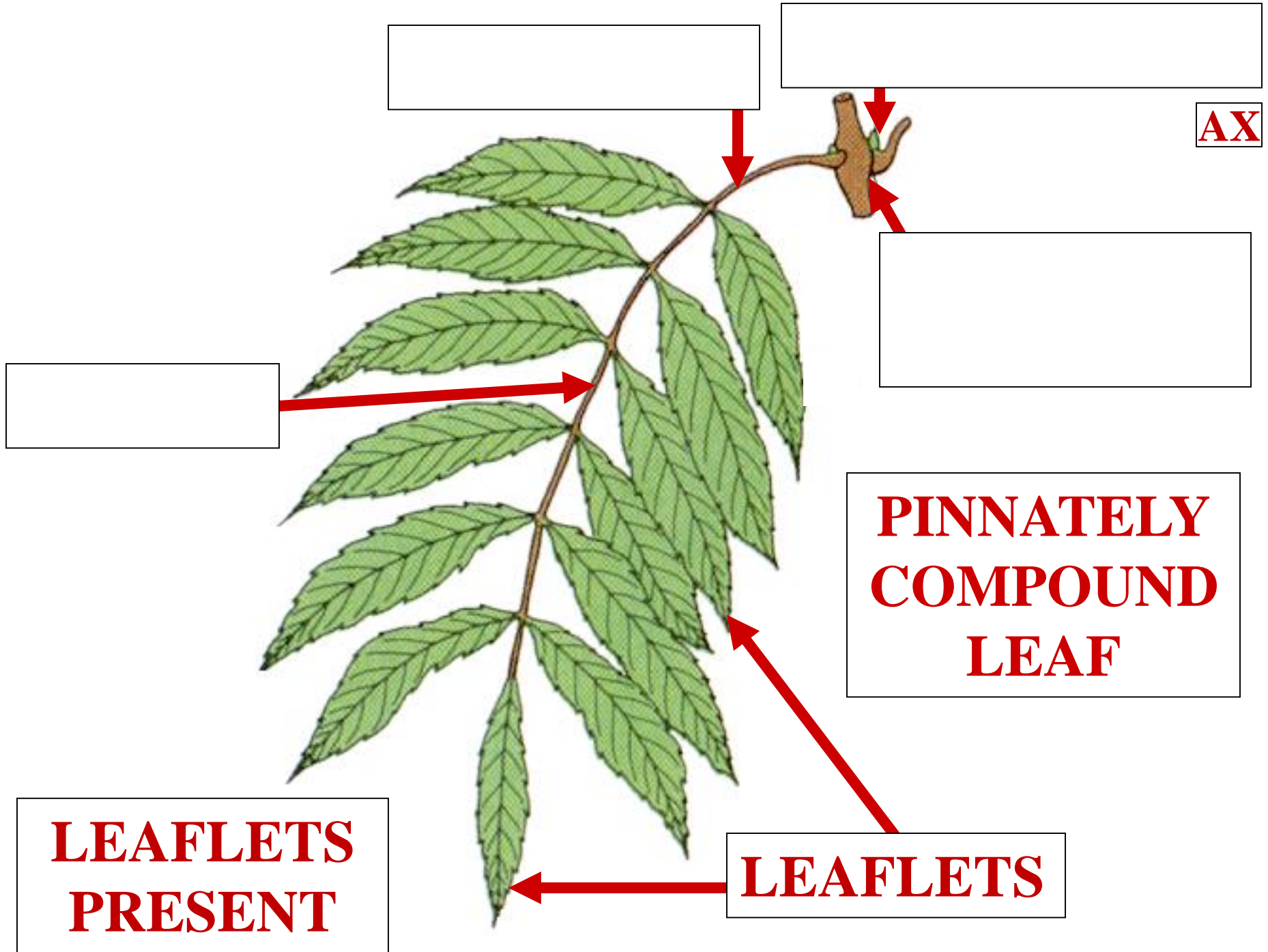


**DICOT LEAF**  
**PINNATELY COMPOUND**

**RACHIS PRESENT**

**DICOT LEAF**  
**PINNATELY COMPOUND**





**AXILLARY BUD**

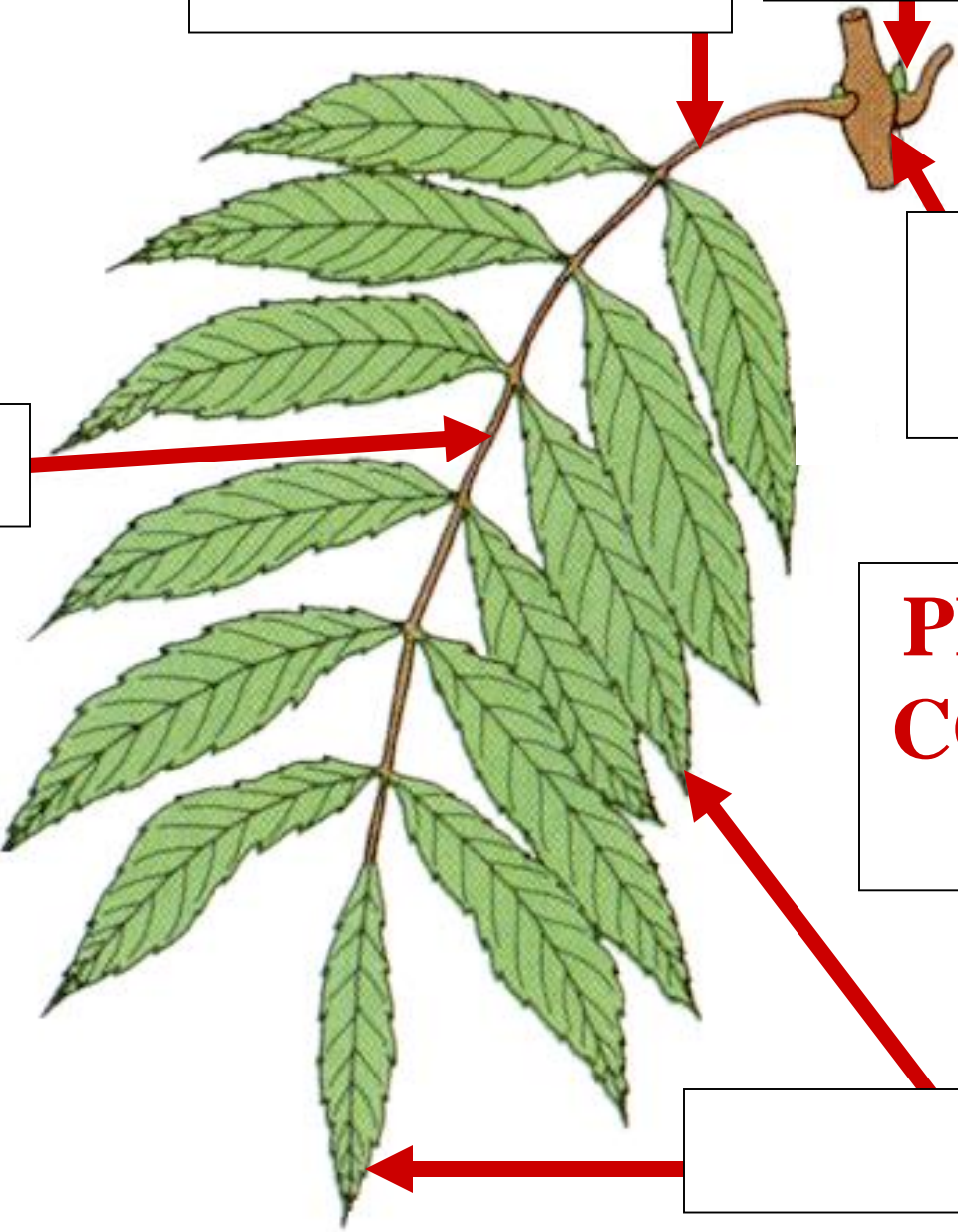
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**PINNATELY  
COMPOUND  
LEAF**

[ ]



**AXILLARY BUD**

**P**

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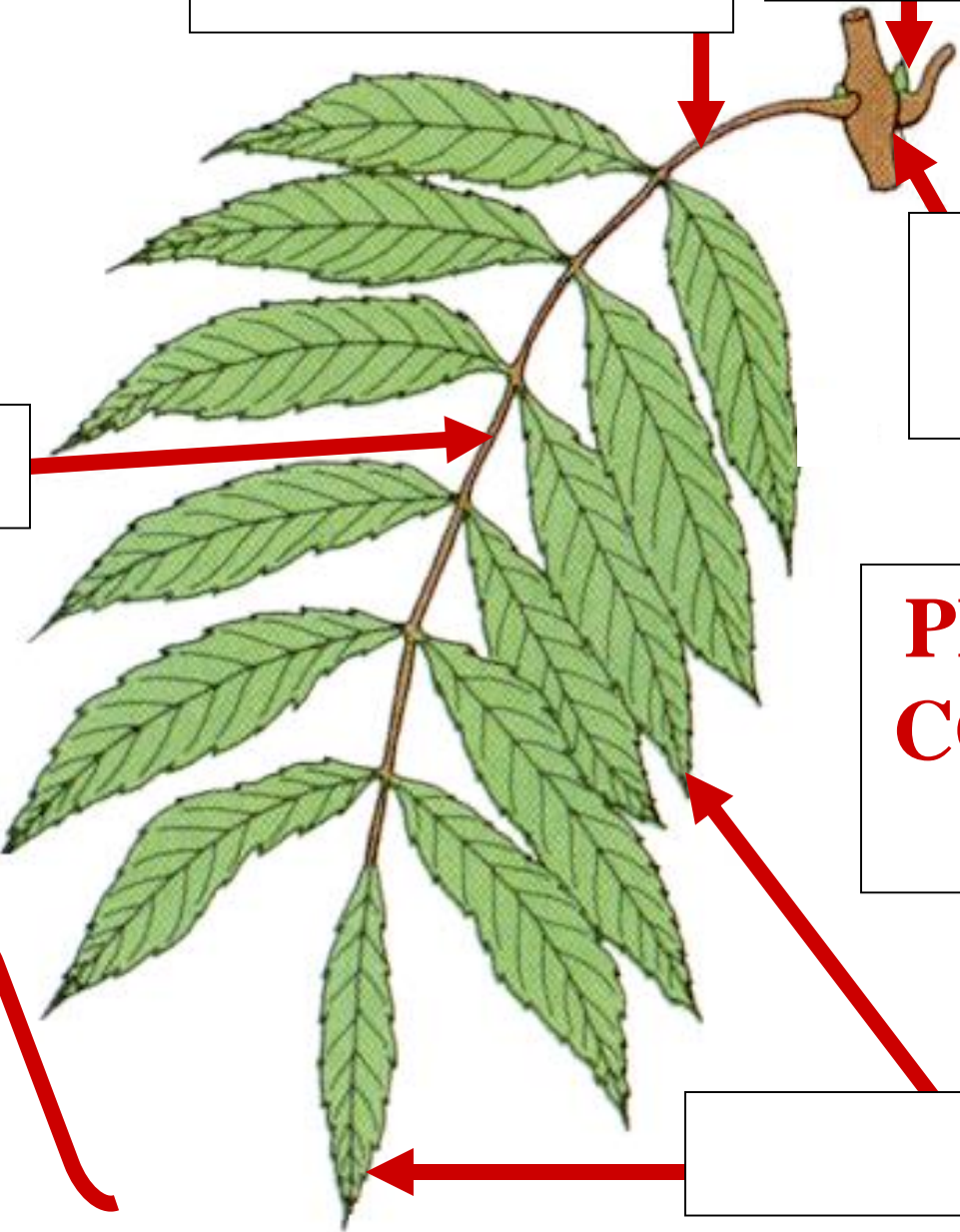
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**PINNATELY  
COMPOUND  
LEAF**

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**LEAF**

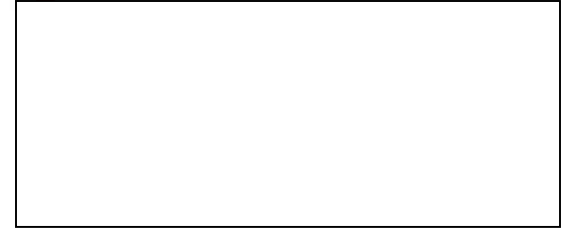
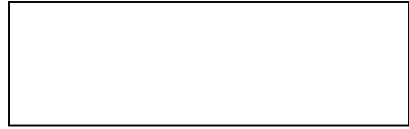




**PETIOLE**

**AXILLARY BUD**

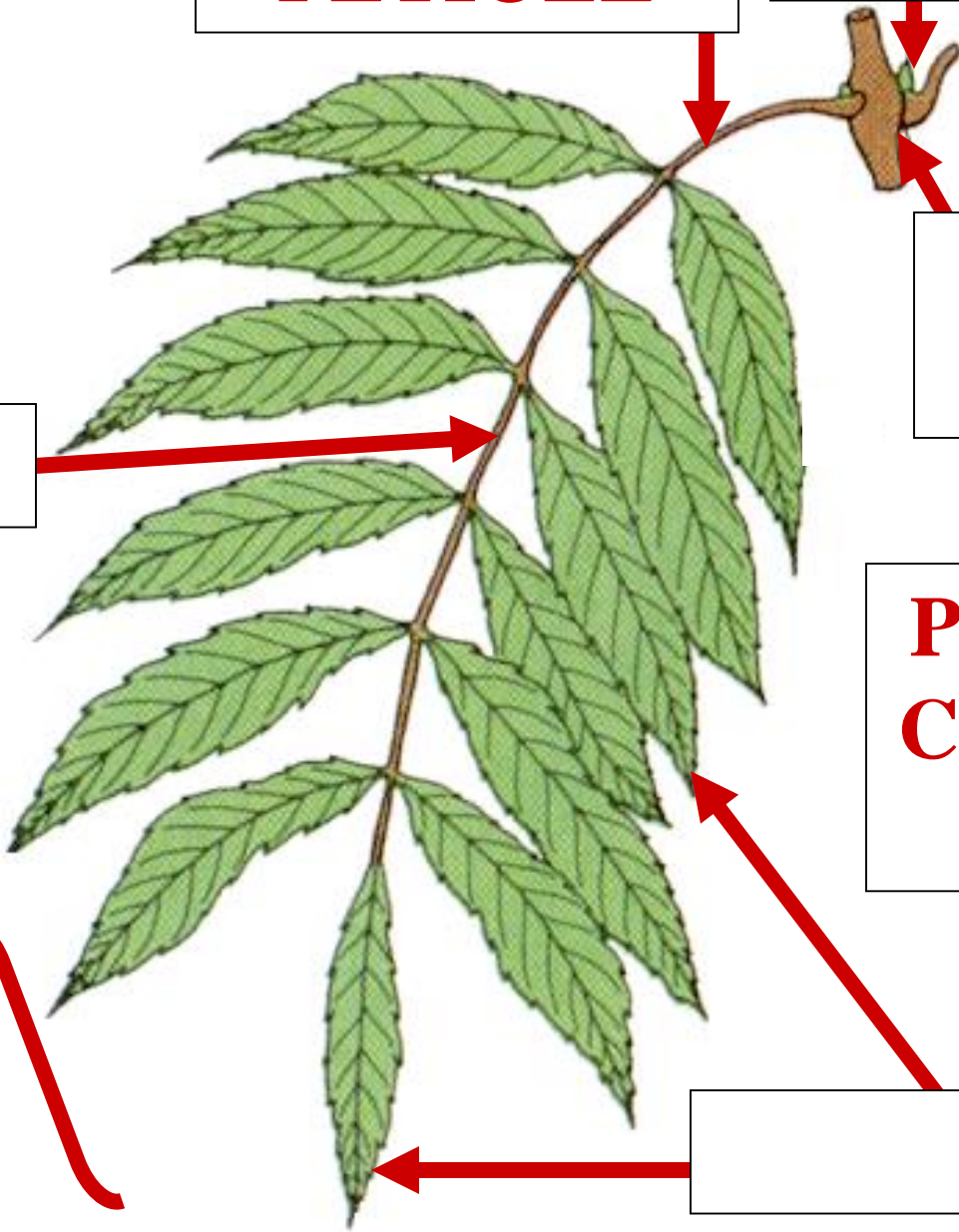
**S**



**PINNATELY  
COMPOUND  
LEAF**



**LEAF**





**PETIOLE**

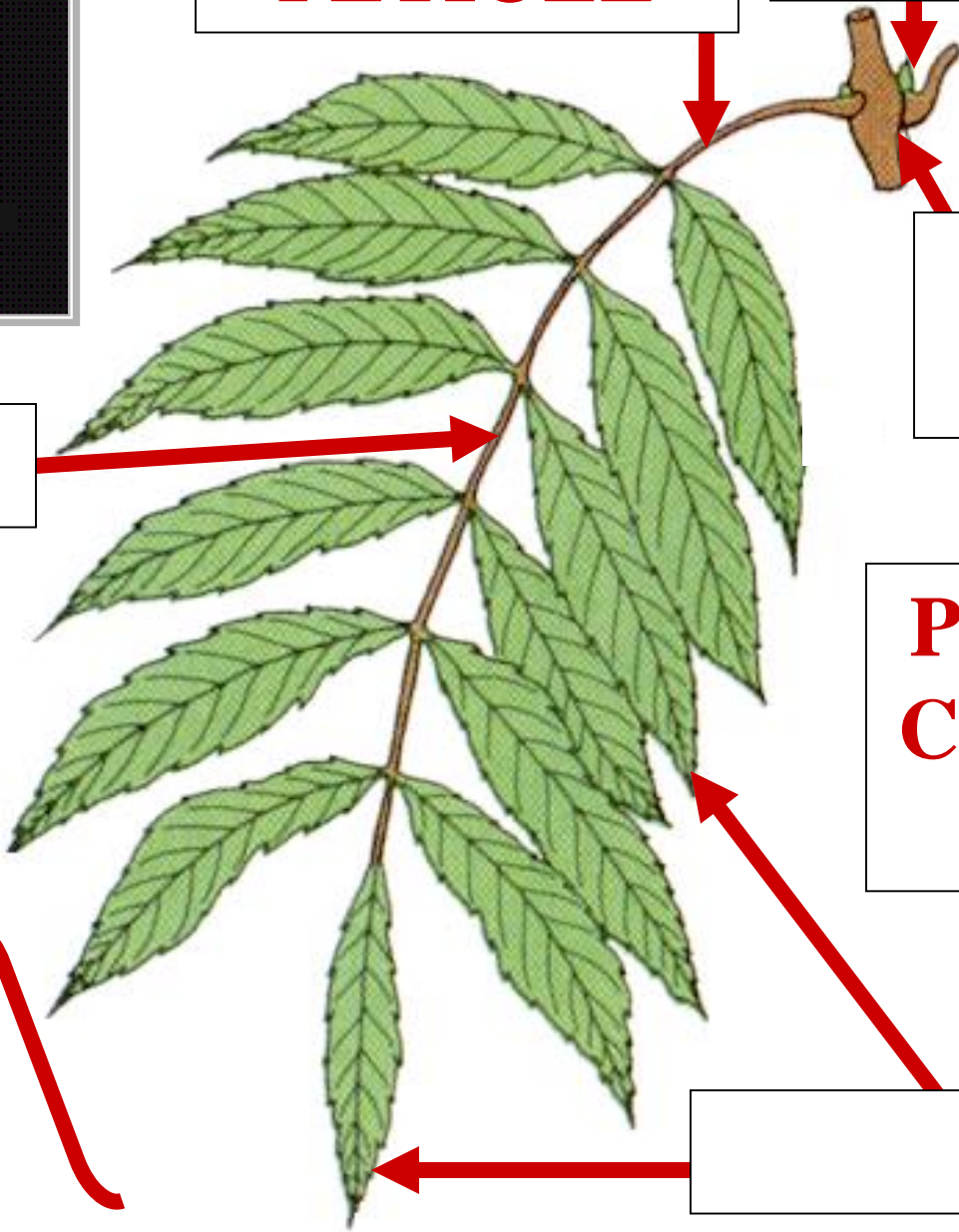
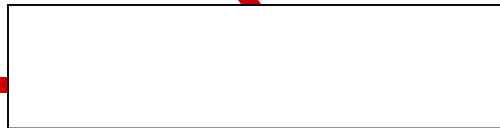
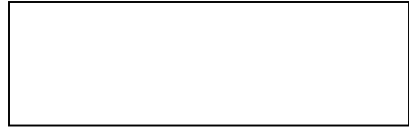
**AXILLARY BUD**

**R**

**STIPULES  
ABSENT**

**PINNATELY  
COMPOUND  
LEAF**

**LEAF**





**PETIOLE**

**AXILLARY BUD**

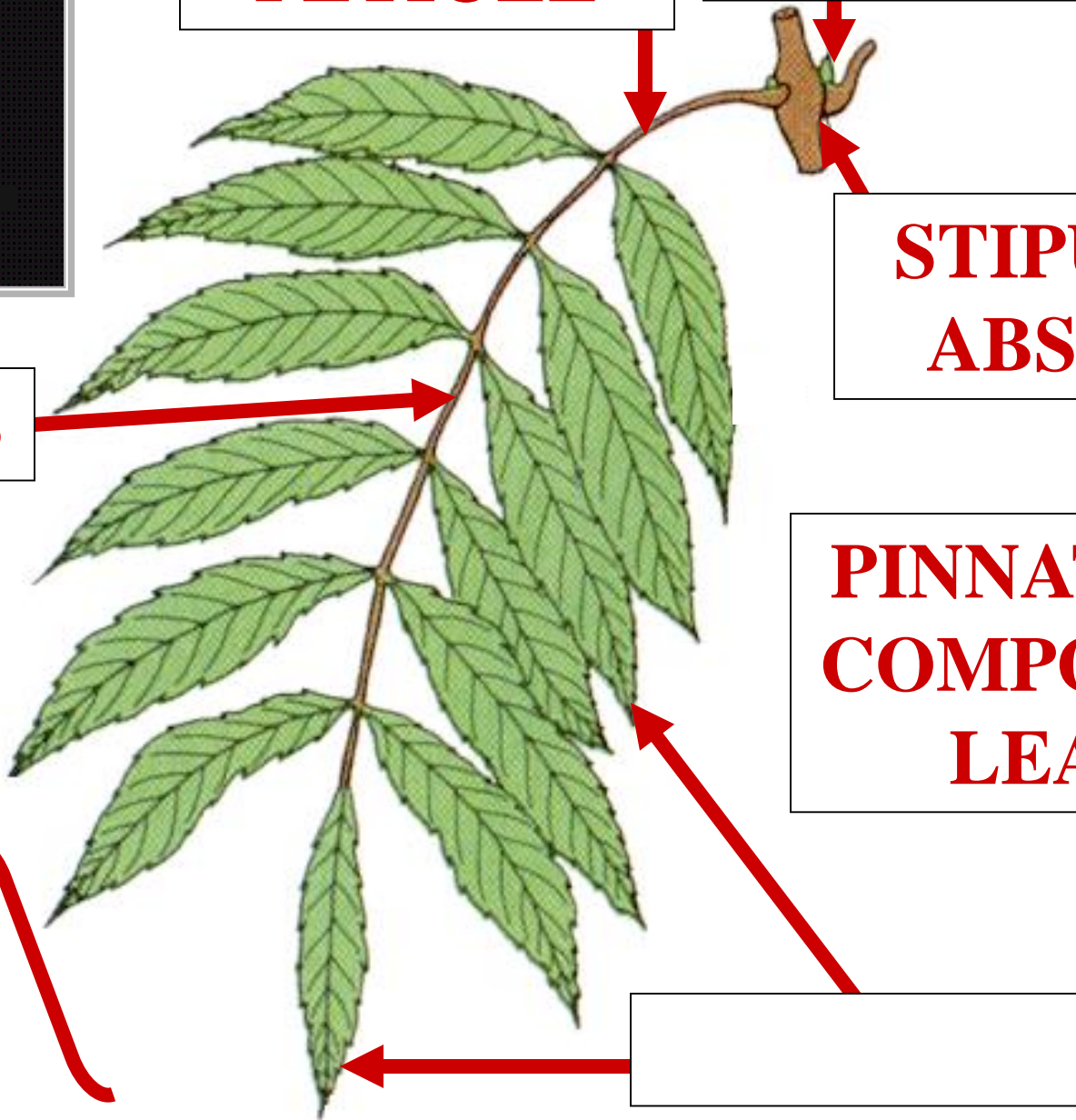
**R**

**STIPULES  
ABSENT**

**RACHIS**

**PINNATELY  
COMPOUND  
LEAF**

**LEAF**







# **RACHIS**



**DICOT LEAF**  
**PINNATELY COMPOUND**  
**RACHIS**

**LEAFLET ORIGIN**

**DICOT LEAF**  
**PINNATELY COMPOUND**  
**RACHIS**



**PETIOLE**

**AXILLARY BUD**

**LL**

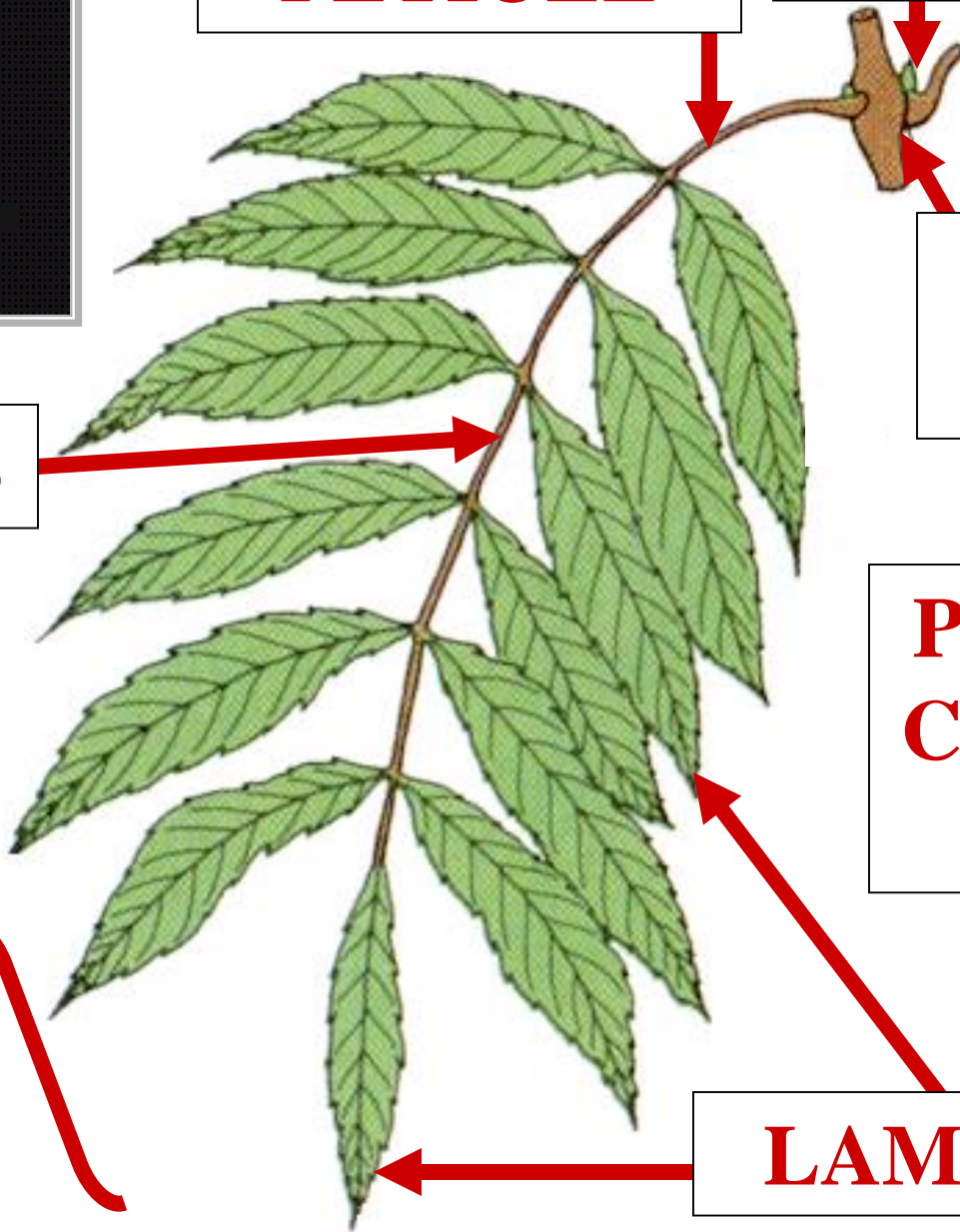
**STIPULES  
ABSENT**

**RACHIS**

**PINNATELY  
COMPOUND  
LEAF**

**LEAF**

**LAMINA**



**LEAFLET**



**DICOT LEAF  
PINNATELY COMPOUND  
LEAFLET**

**LAMINA SEGMENT**

**DICOT LEAF  
PINNATELY COMPOUND  
LEAFLET**



**PETIOLE**

**AXILLARY BUD**

**LL**

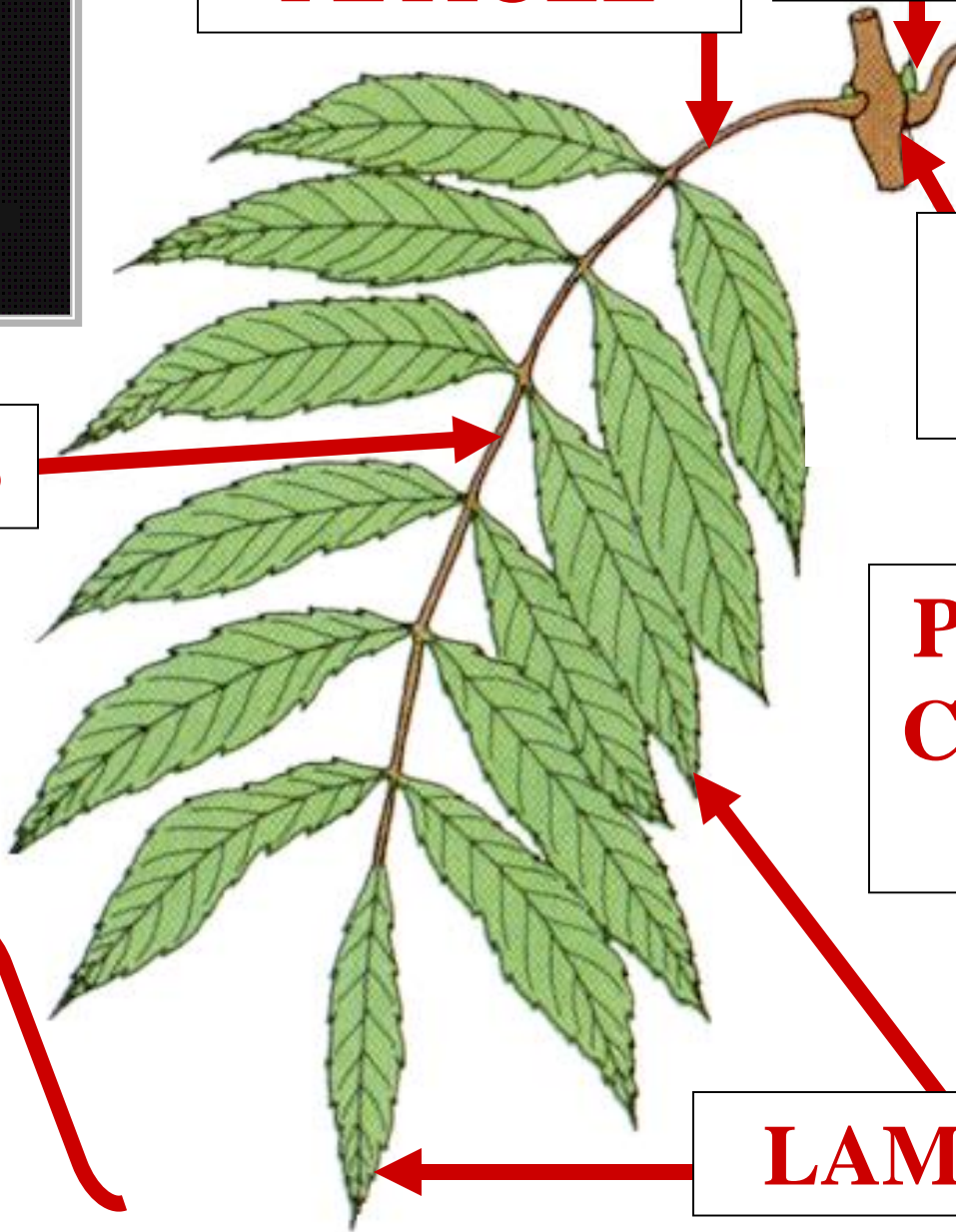
**STIPULES  
ABSENT**

**RACHIS**

**PINNATELY  
COMPOUND  
LEAF**

**LEAF**

**LAMINA**





**PETIOLE**

**AXILLARY BUD**

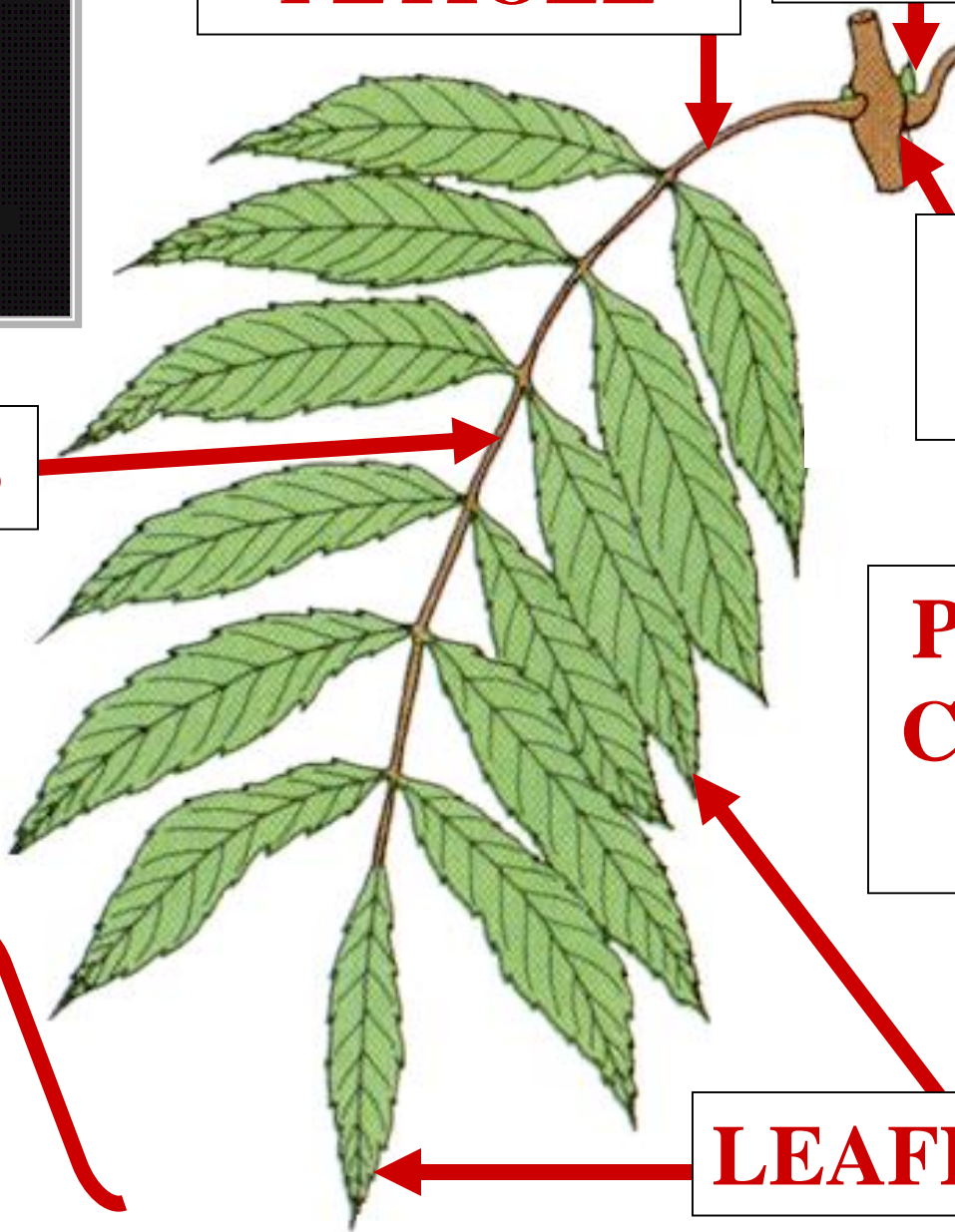
**STIPULES  
ABSENT**

**RACHIS**

**PINNATELY  
COMPOUND  
LEAF**

**LEAF**

**LEAFLETS**



**PALMATELY  
COMPOUND  
DICOT LEAF**



**PALMATELY  
COMPOUND  
DICOT LEAF**



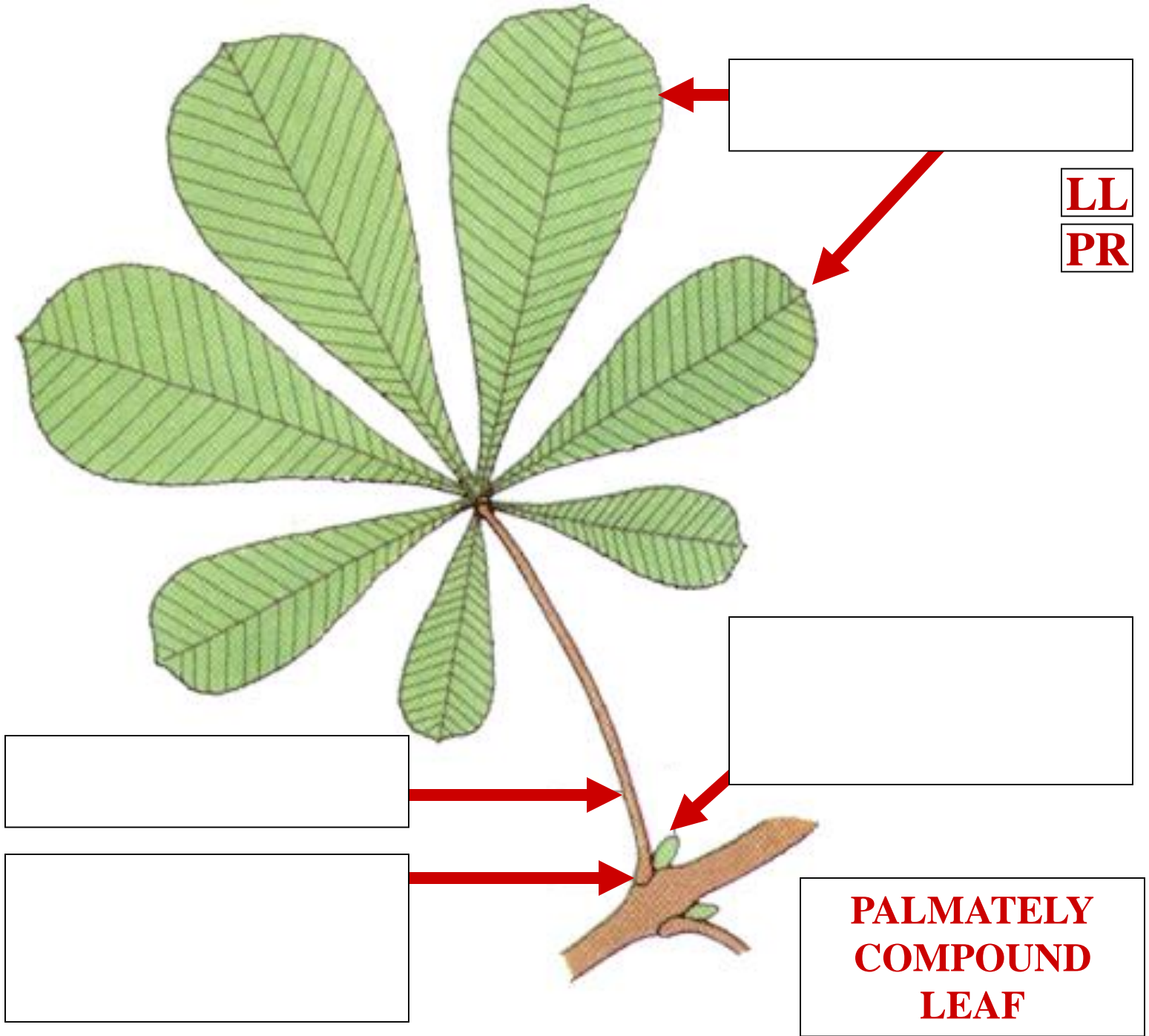
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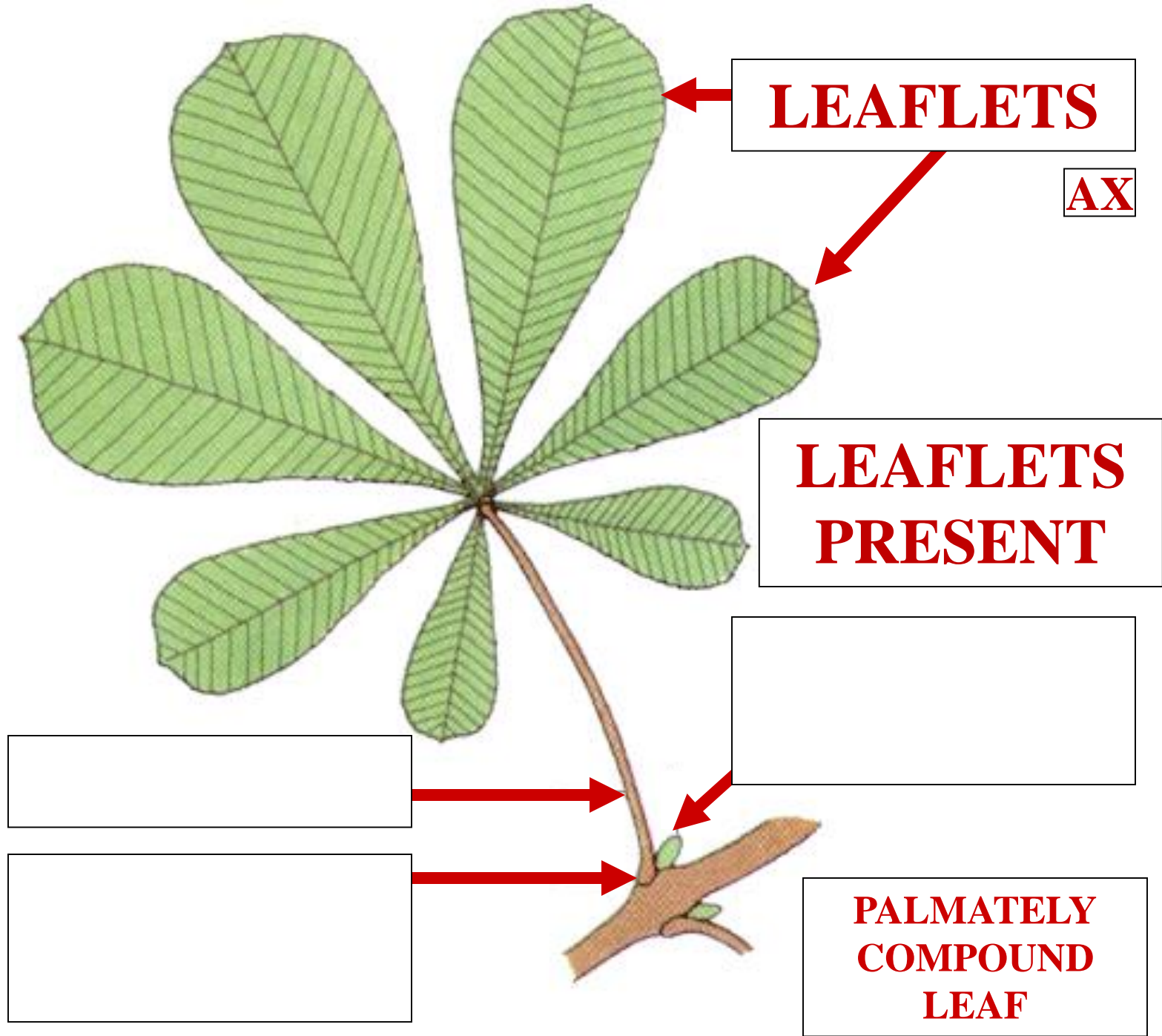
**PALMATELY COMPOUND**

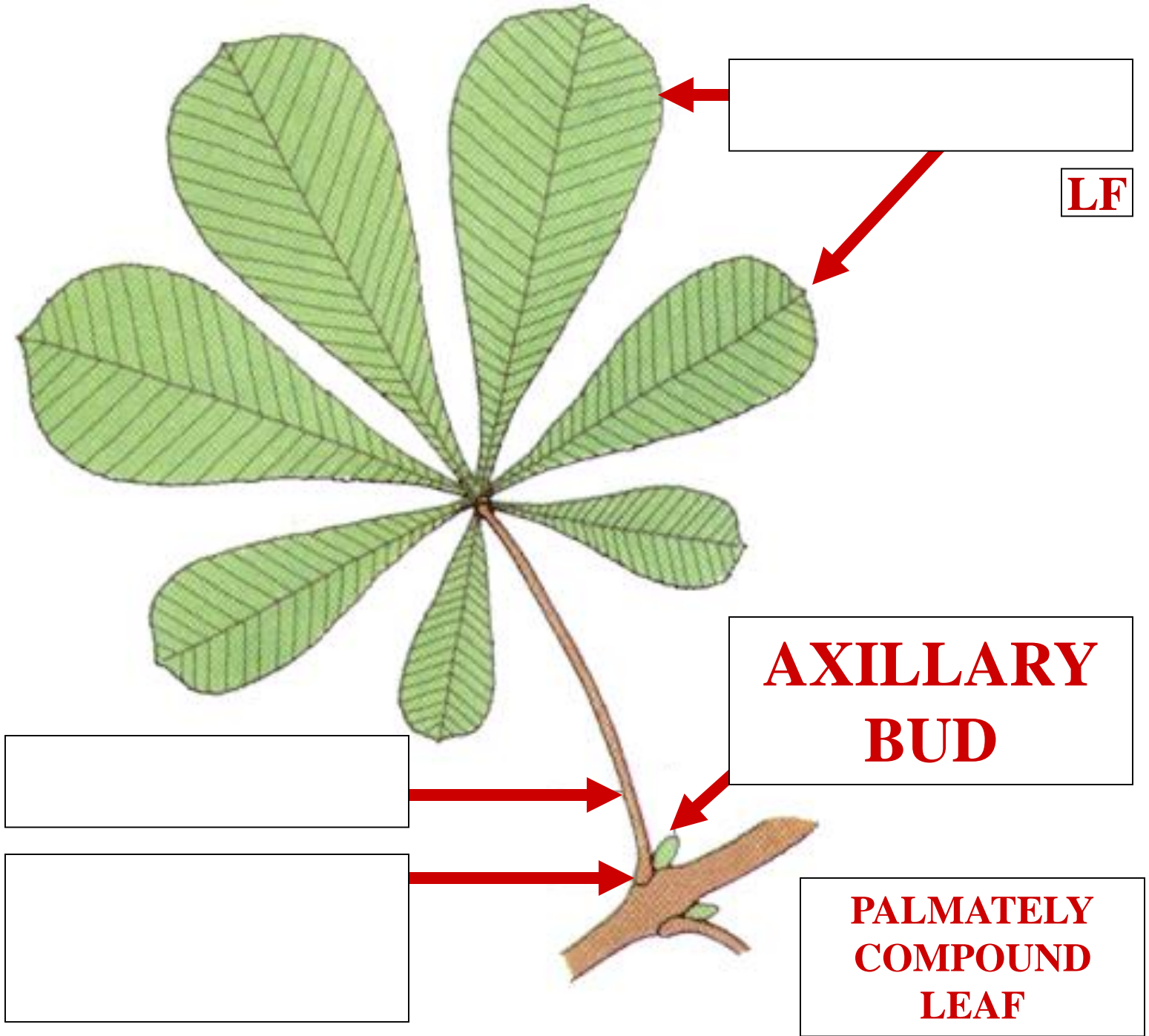
**RACHIS ABSENT**

**DICOT LEAF**

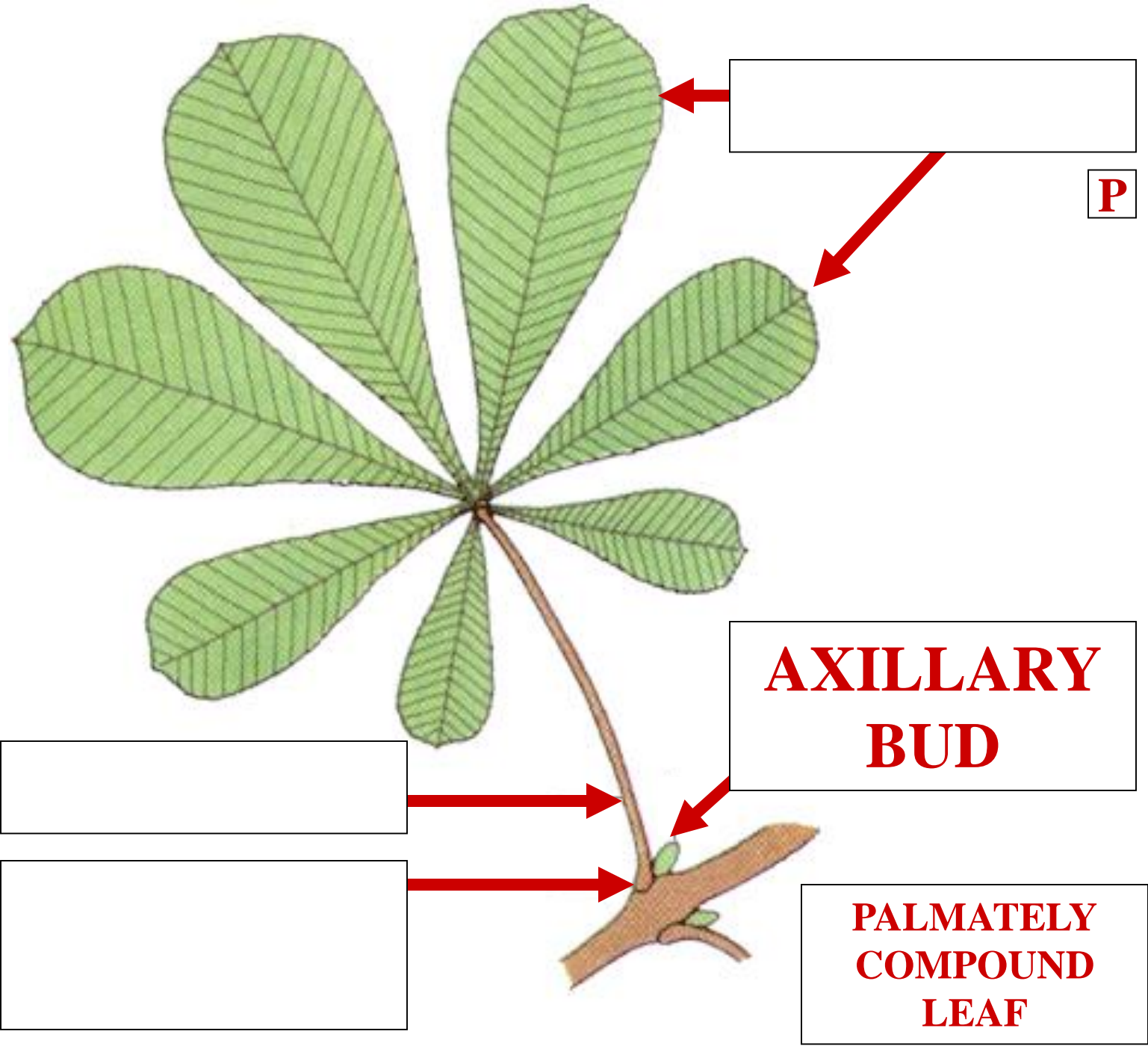
**PALMATELY COMPOUND**







**LEAF**



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**P**

**AXILLARY  
BUD**

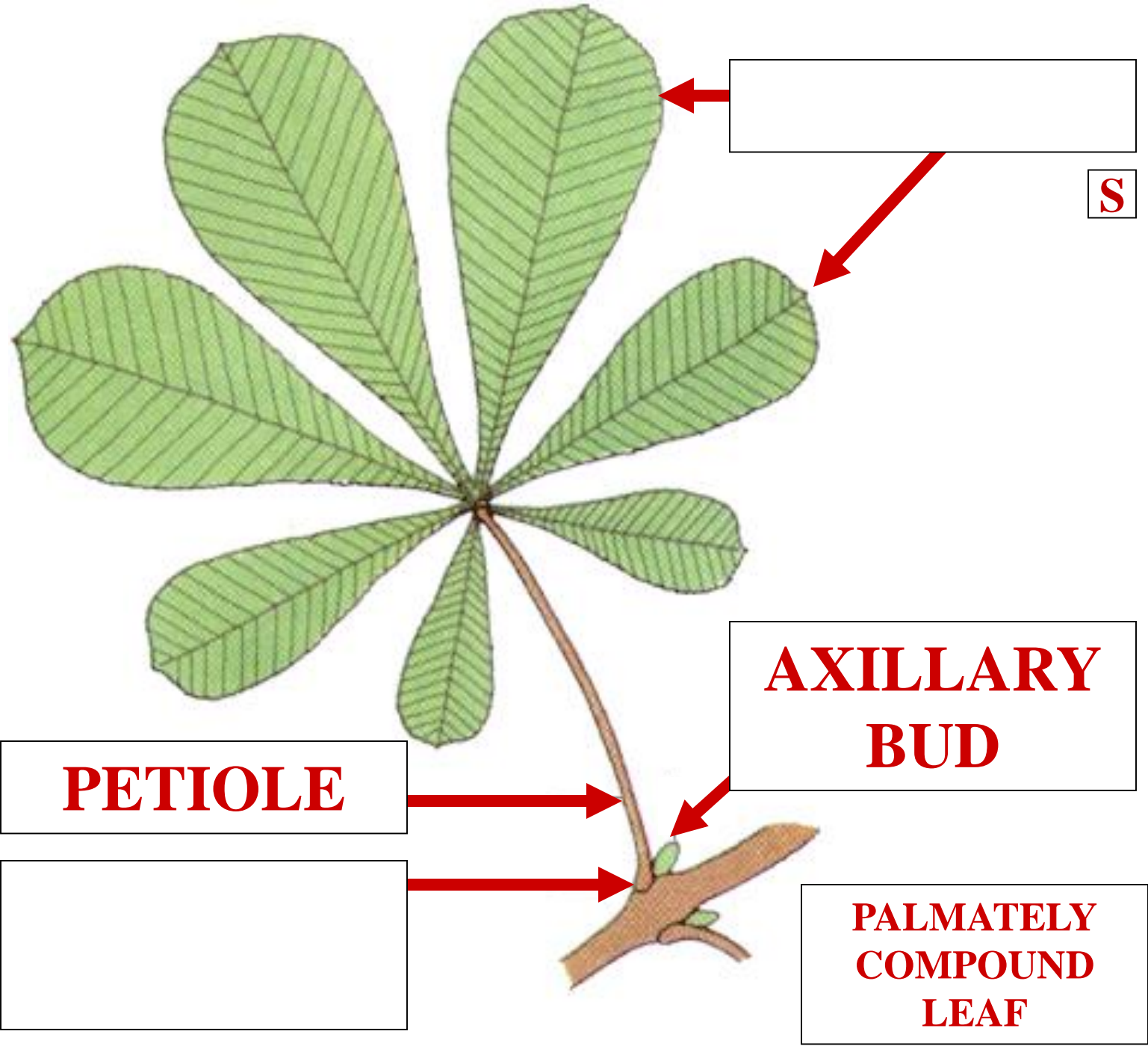
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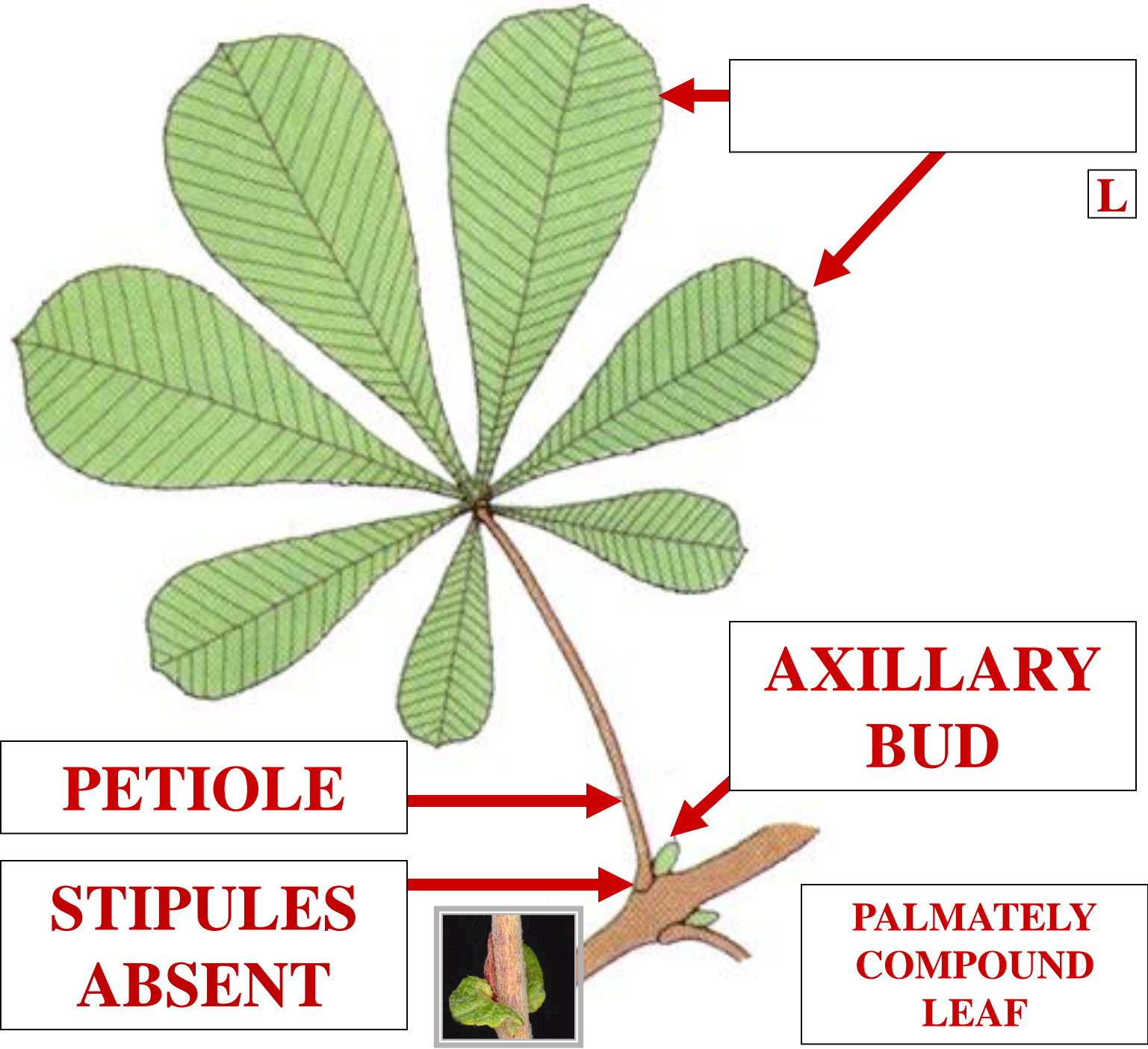
**PALMATELY  
COMPOUND  
LEAF**



**LEAF**

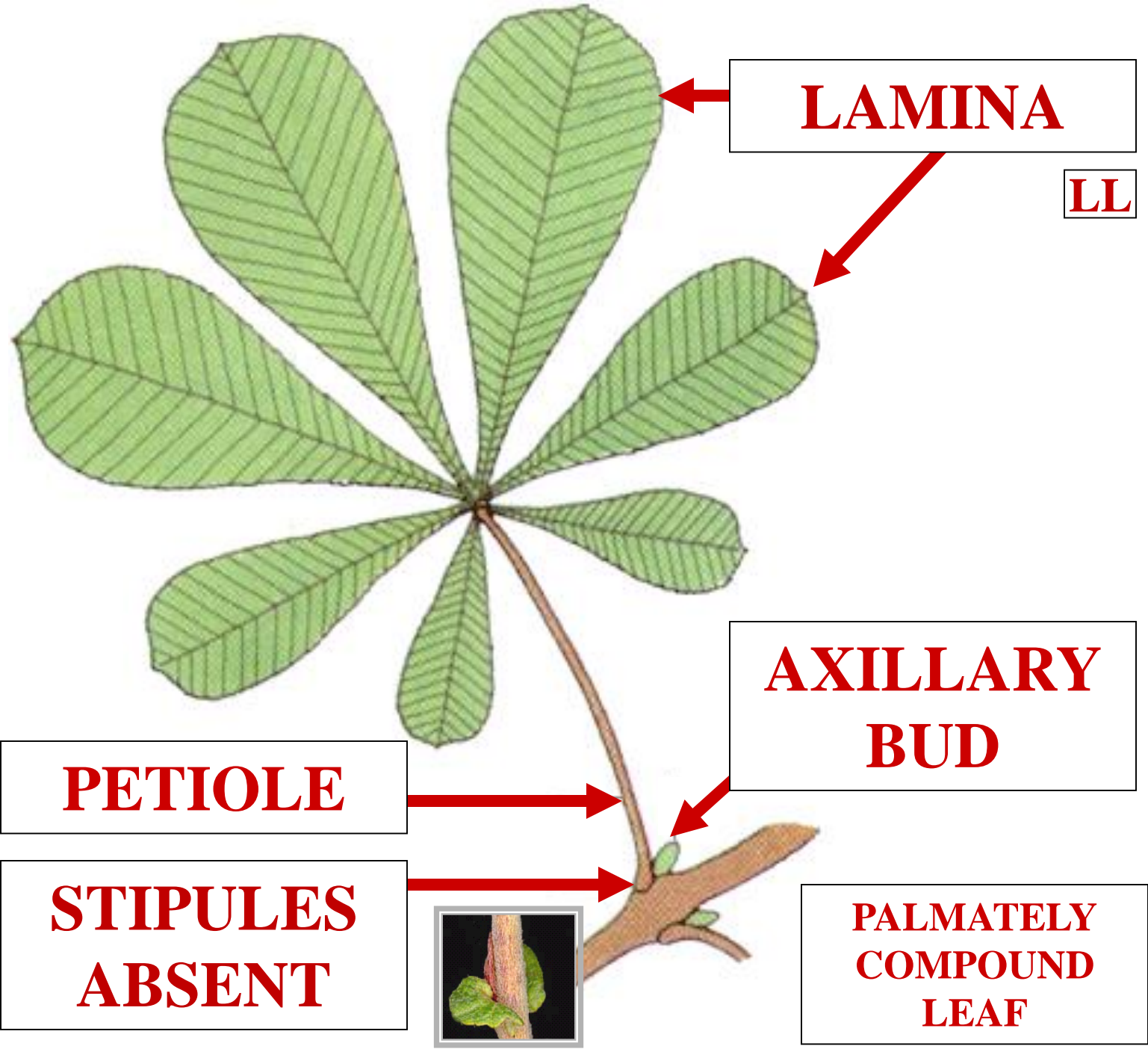


**LEAF**





**LEAF**



**LAMINA**

**LL**

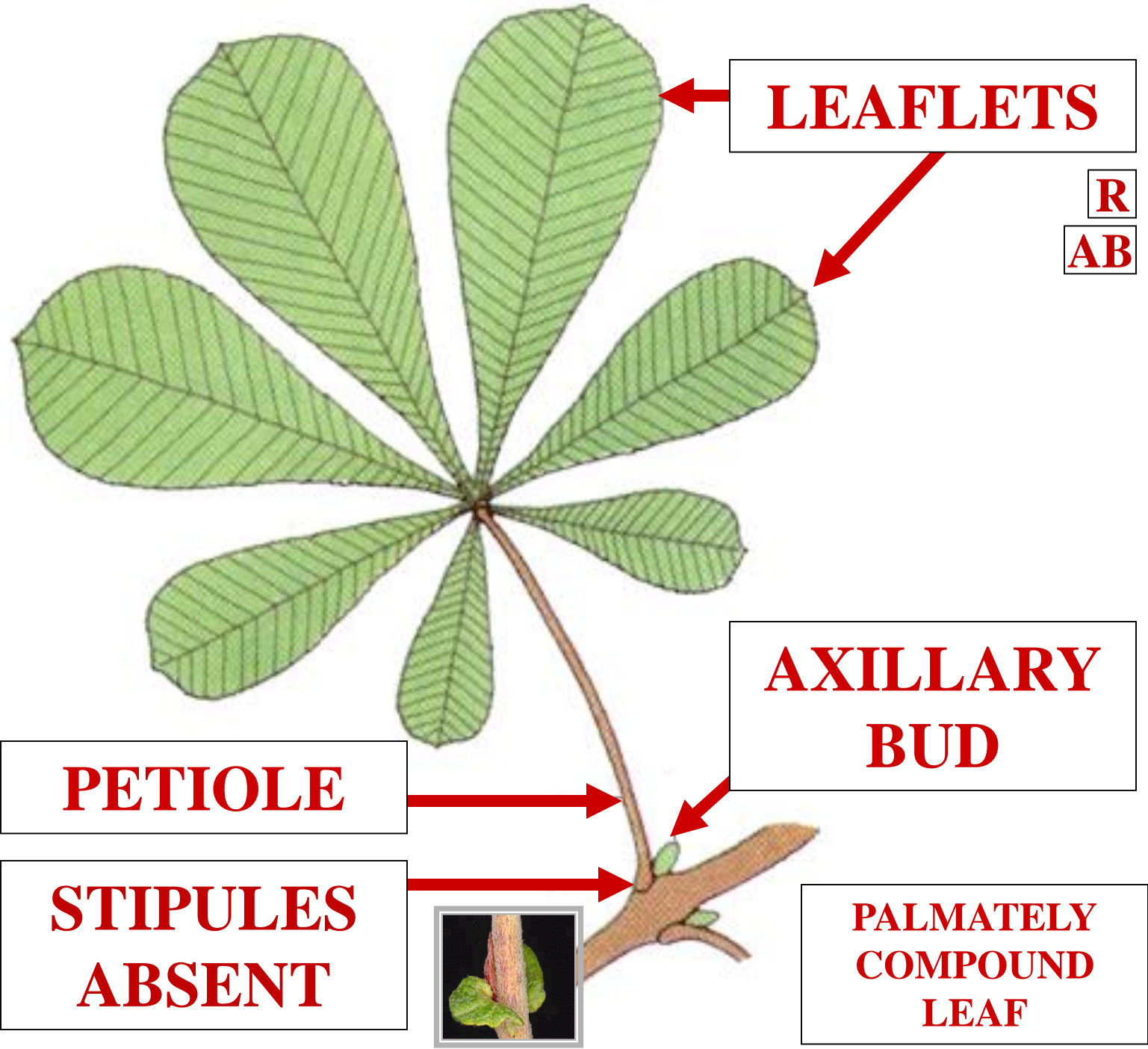
**AXILLARY BUD**

**PETIOLE**

**STIPULES ABSENT**

**PALMATELY COMPOUND LEAF**

**LEAF**



**LEAFLETS**

**R**  
**AB**

**AXILLARY  
BUD**

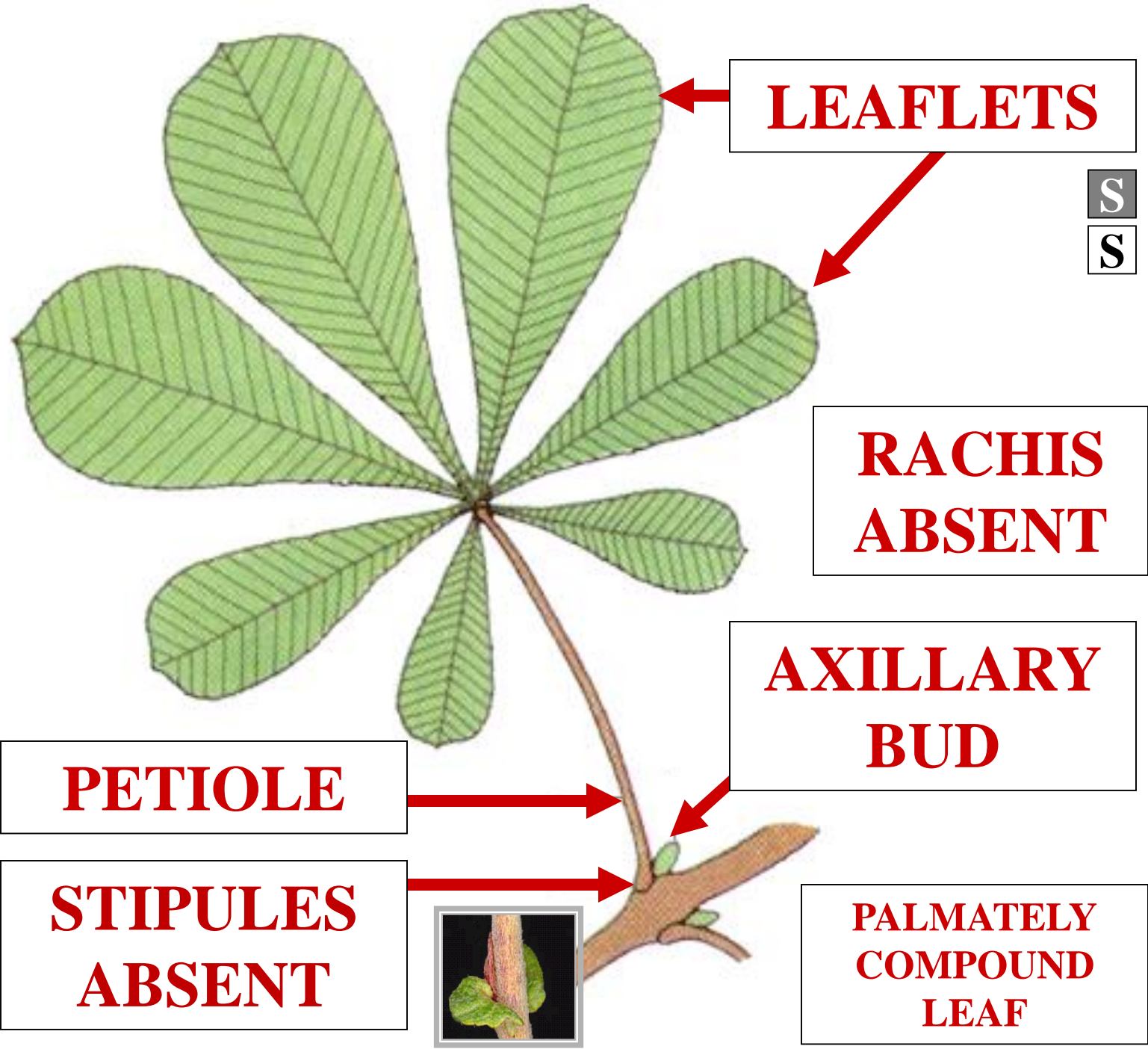
**PETIOLE**

**STIPULES  
ABSENT**

**PALMATELY  
COMPOUND  
LEAF**



**LEAF**





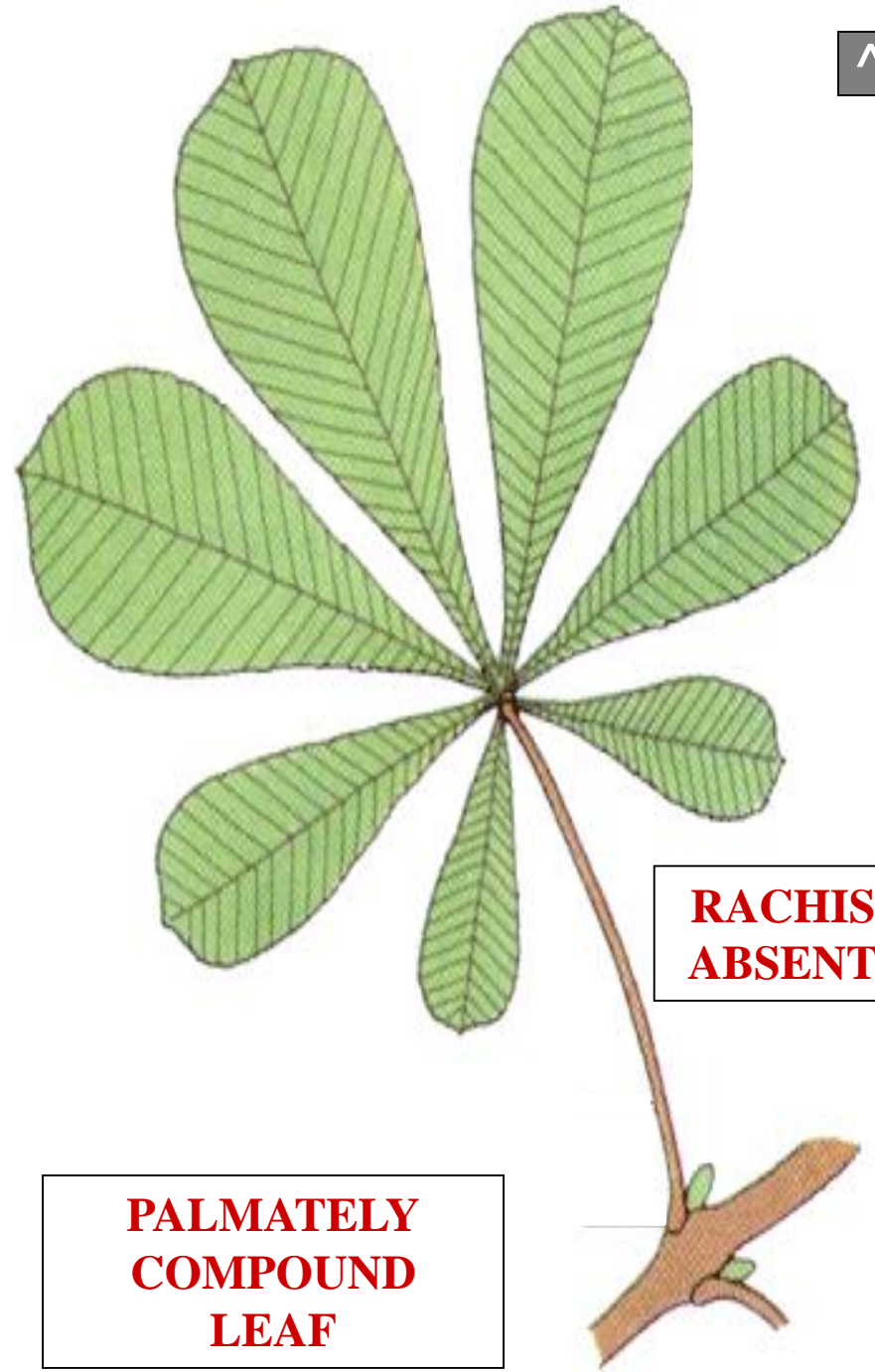
# COMPOUND LEAF SUMMARY



**PINNATELY COMPOUND  
LEAF**



**RACHIS  
PRESENT**



**RACHIS  
ABSENT**

**PALMATELY  
COMPOUND  
LEAF**

# DICOT LEAF VENATION

# **RETICULATE VENATION**



**DICOT LEAF**



**RETICULATE VENATION**

**MAJORS VEINS NETTED**

**DICOT LEAF**

**RETICULATE VENATION**



**RETICULATE VENATION**

**DICOT LEAF VENATION**



# DICOT LEAF ANATOMY

# DICOT LEAF ANATOMY TYPES

**DICOT  
LEAF ANATOMY  
TYPES**

**HYDROPHYTE LEAF**

**DICOT  
LEAF ANATOMY  
TYPES**

**DICOT  
LEAF ANATOMY  
TYPES**

**HYDROPHYTE LEAF  
MESOPHYTE LEAF**

**DICOT  
LEAF ANATOMY  
TYPES**



**DICOT  
LEAF ANATOMY  
TYPES**

**HYDROPHYTE LEAF  
MESOPHYTE LEAF  
XEROPHYTE LEAF**

**DICOT  
LEAF ANATOMY  
TYPES**



# **HYDROPHYTE LEAF**

# **HYDROPHYTE LEAF**

# **DICOT LEAF ANATOMY**

## **HYDROPHYTE**



**ADAPTED**  
**HIGH MOISTURE**  
**HABITAT**

**DICOT LEAF ANATOMY**  
**HYDROPHYTE**



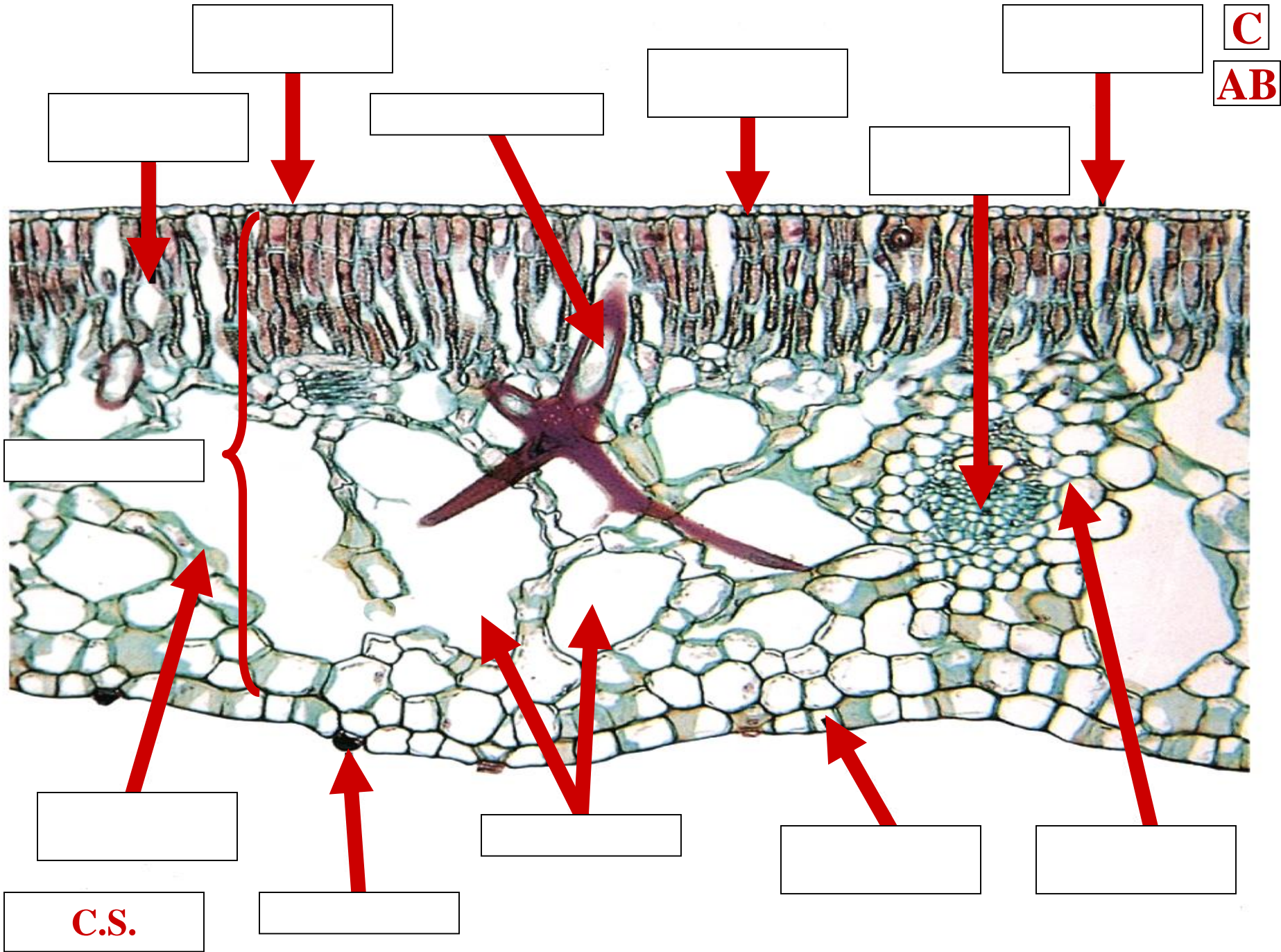
# AQUATIC HABITAT





***NYMPHAEA***

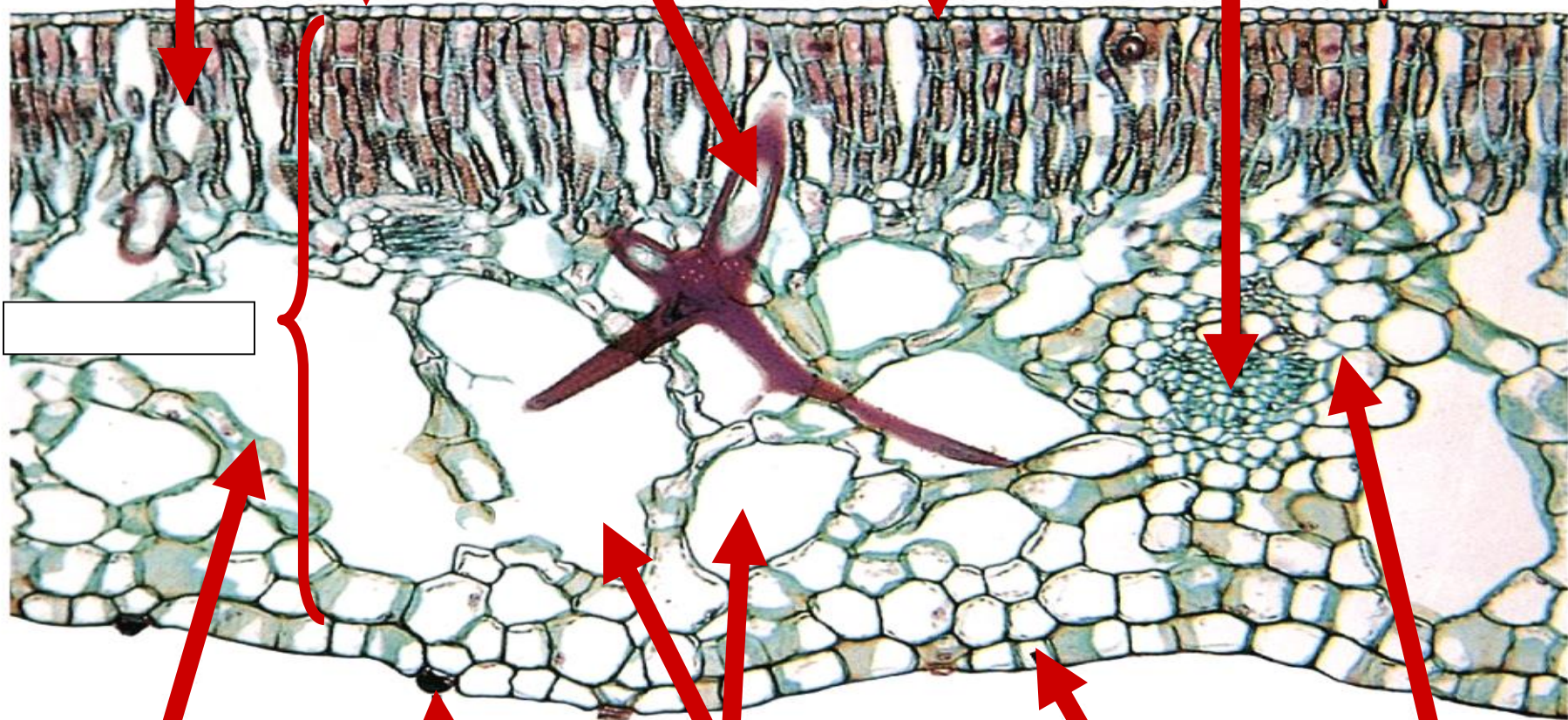






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ABSENT**

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**C.S.**

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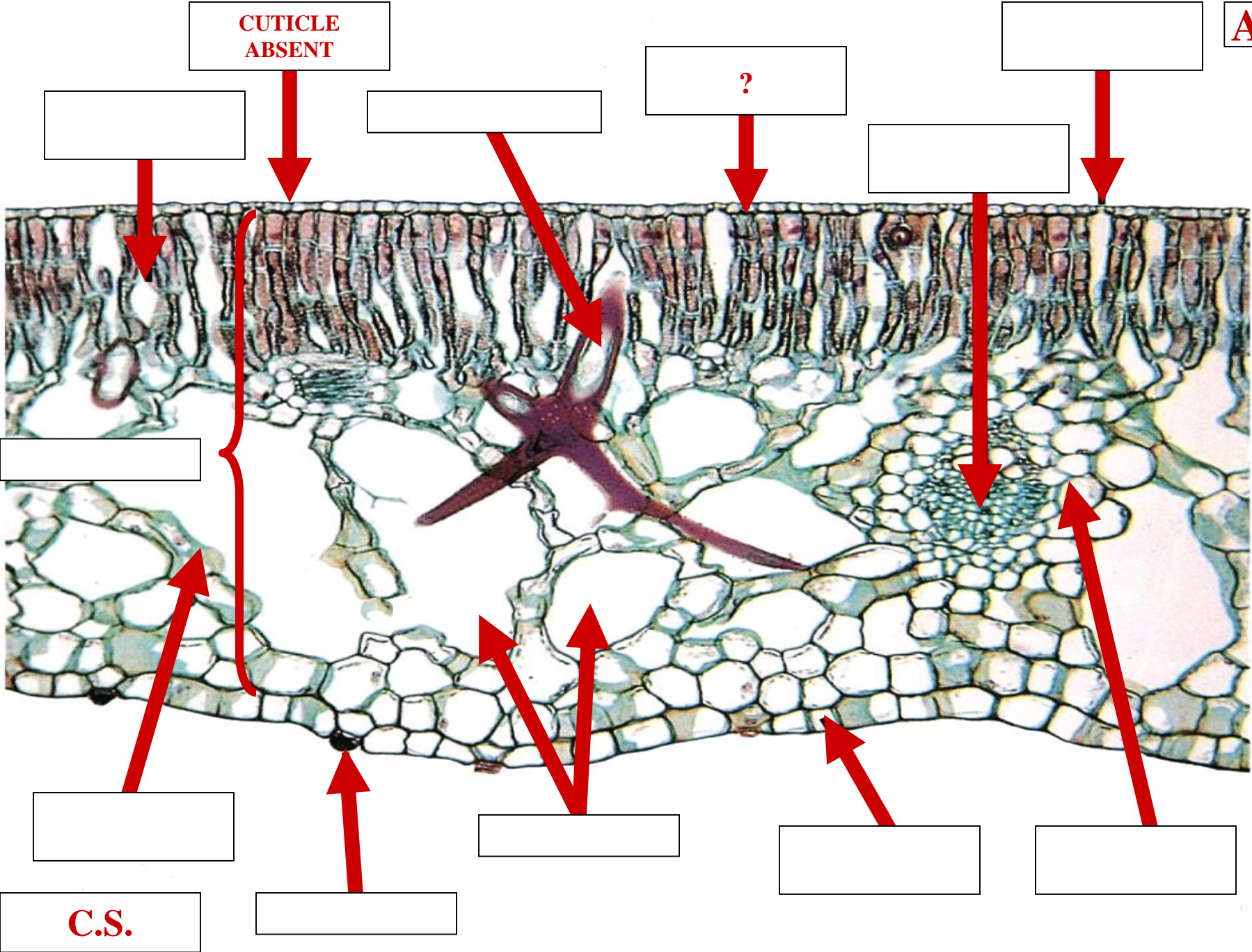
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CUTICLE  
ABSENT

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C.S.

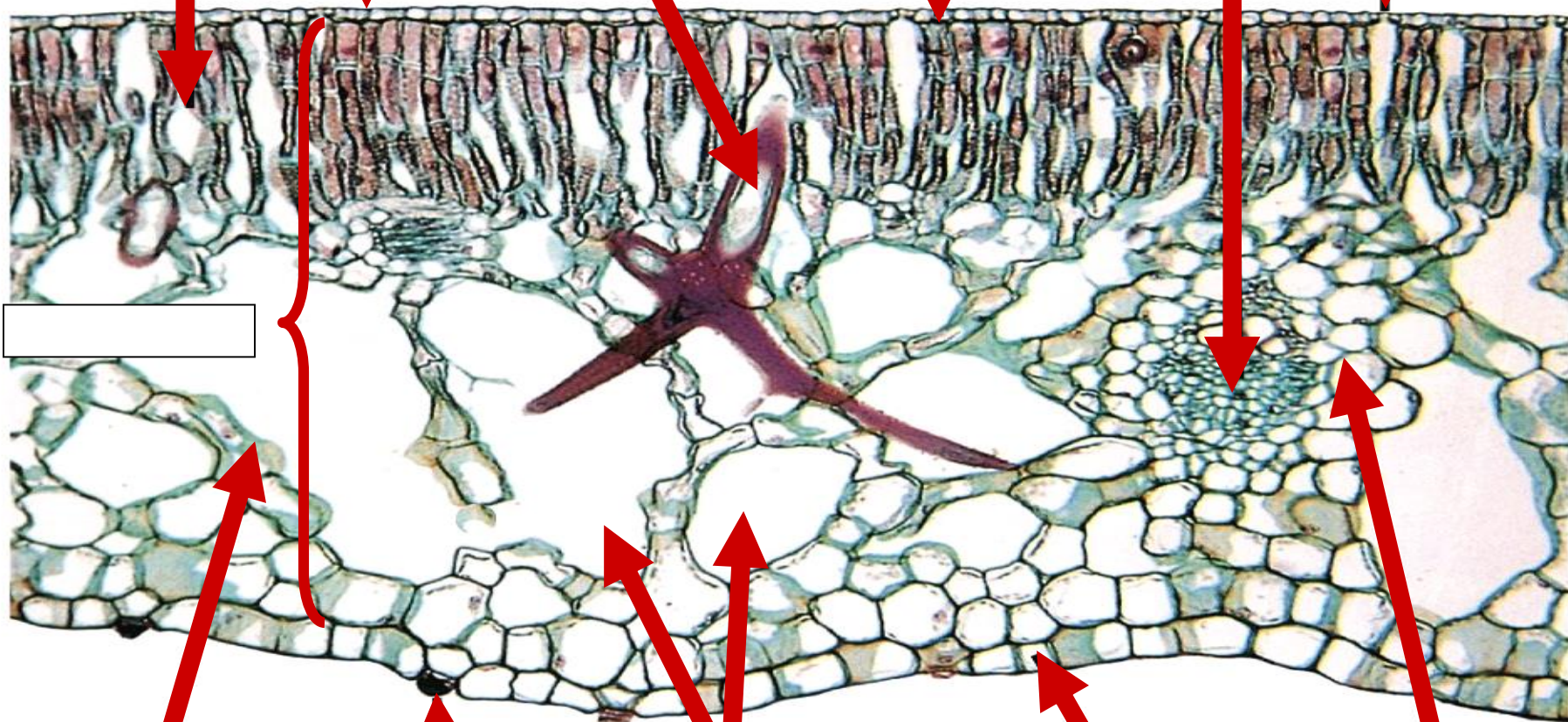


**CUTICLE  
ABSENT**

**ADAXIAL  
EPIDERMIS**

**S**

**PR**



**C.S.**

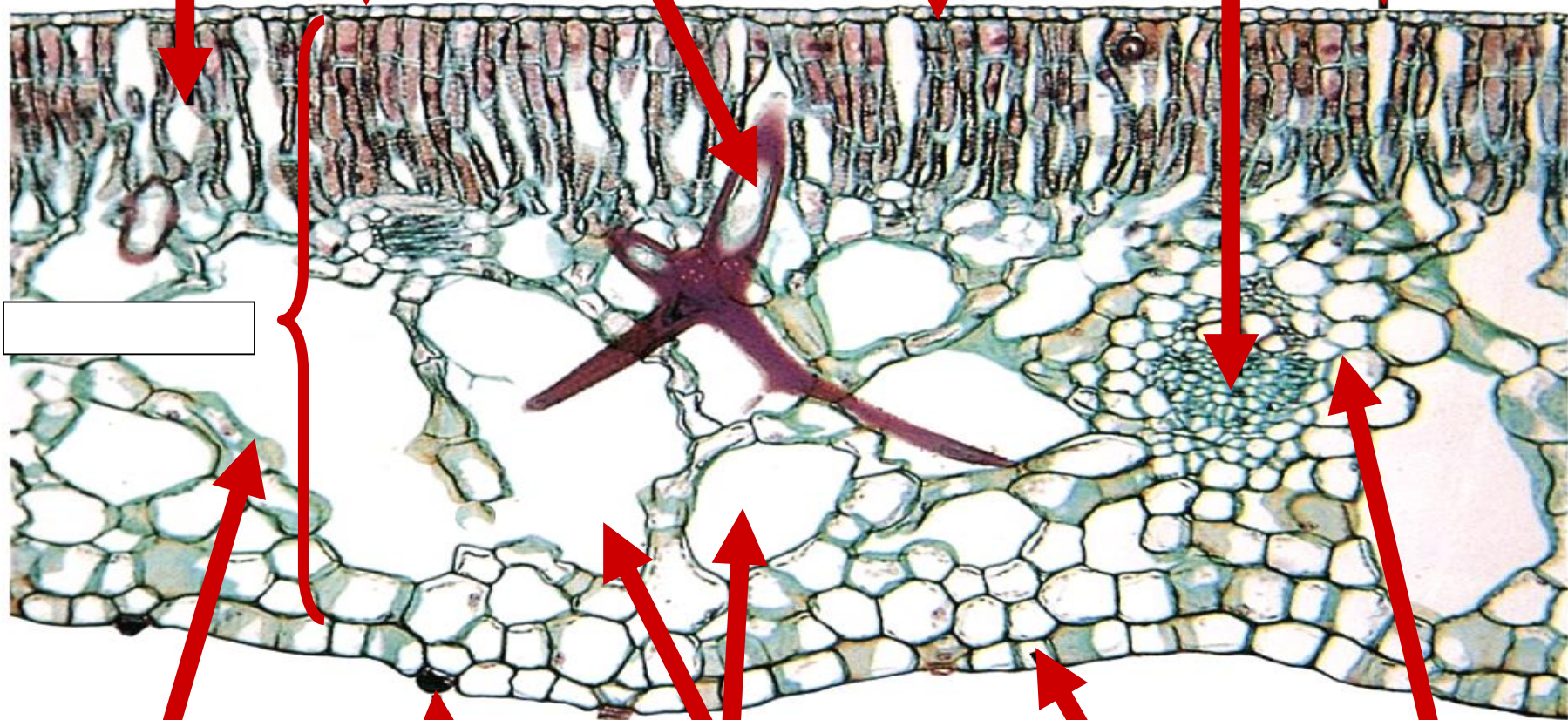


**CUTICLE  
ABSENT**

**ADAXIAL  
EPIDERMIS**

**STOMATES  
PRESENT**

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**C.S.**

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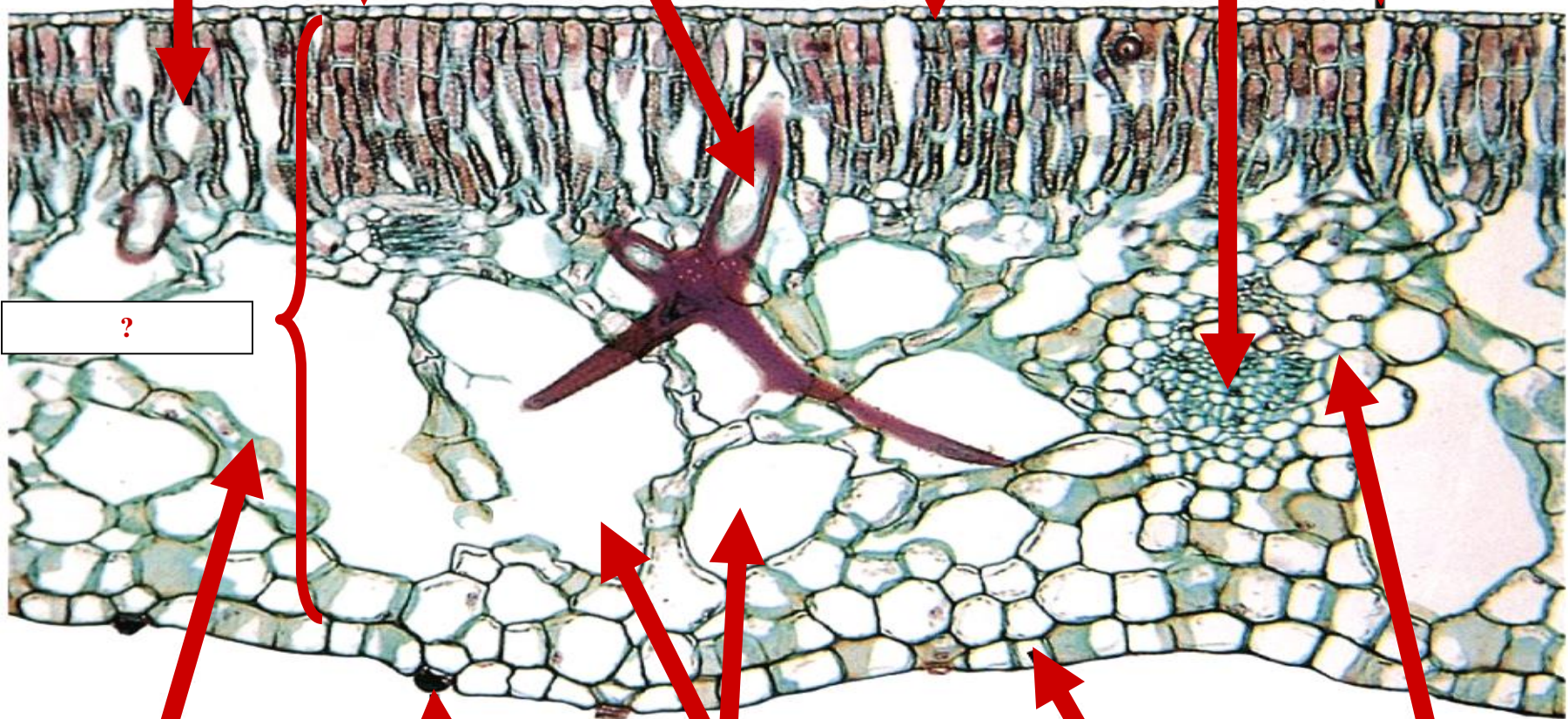
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CUTICLE  
ABSENT

ADAXIAL  
EPIDERMIS

STOMATES  
PRESENT



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C.S.

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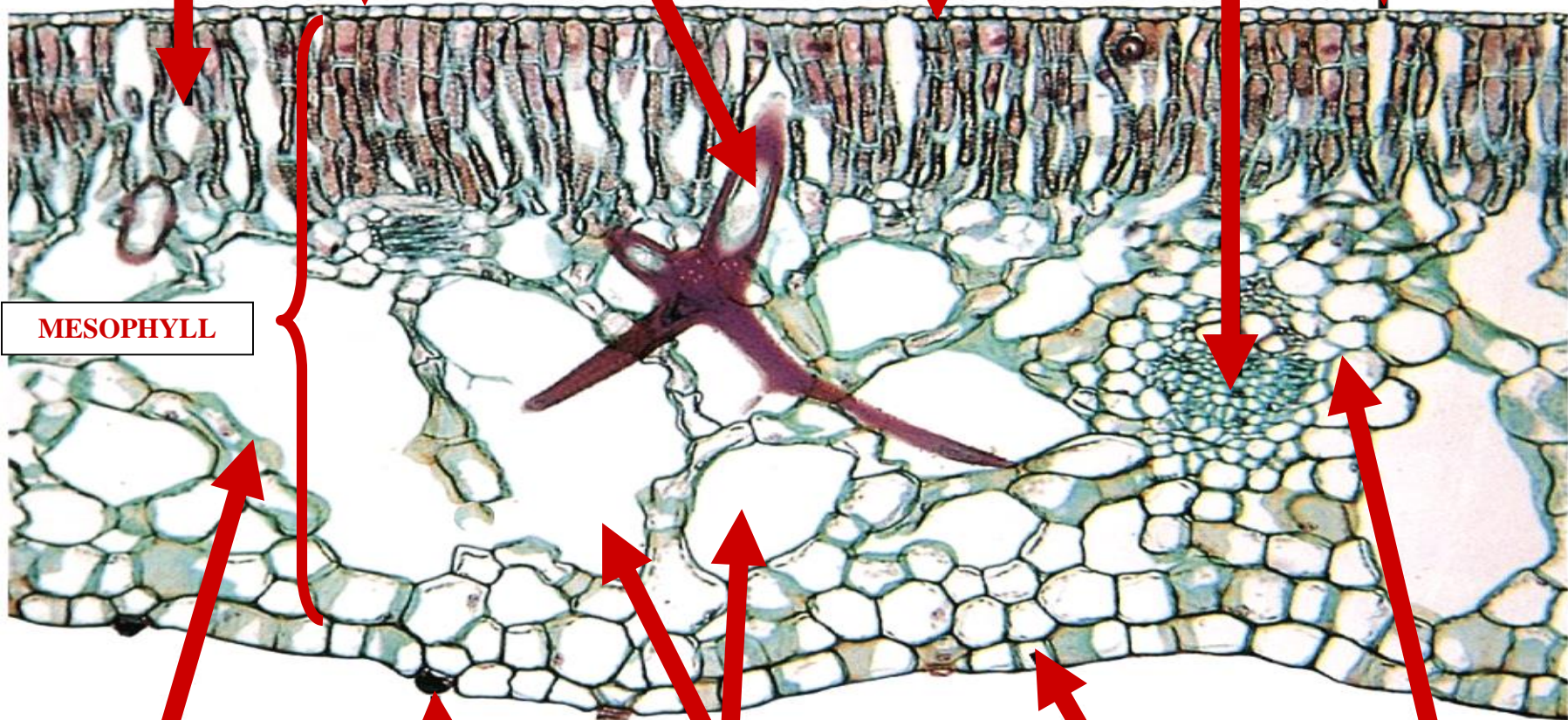


CUTICLE  
ABSENT

ADAXIAL  
EPIDERMIS

STOMATES  
PRESENT

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MESOPHYLL

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C.S.

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ADAXIAL  
EPIDERMIS

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STOMATES  
PRESENT

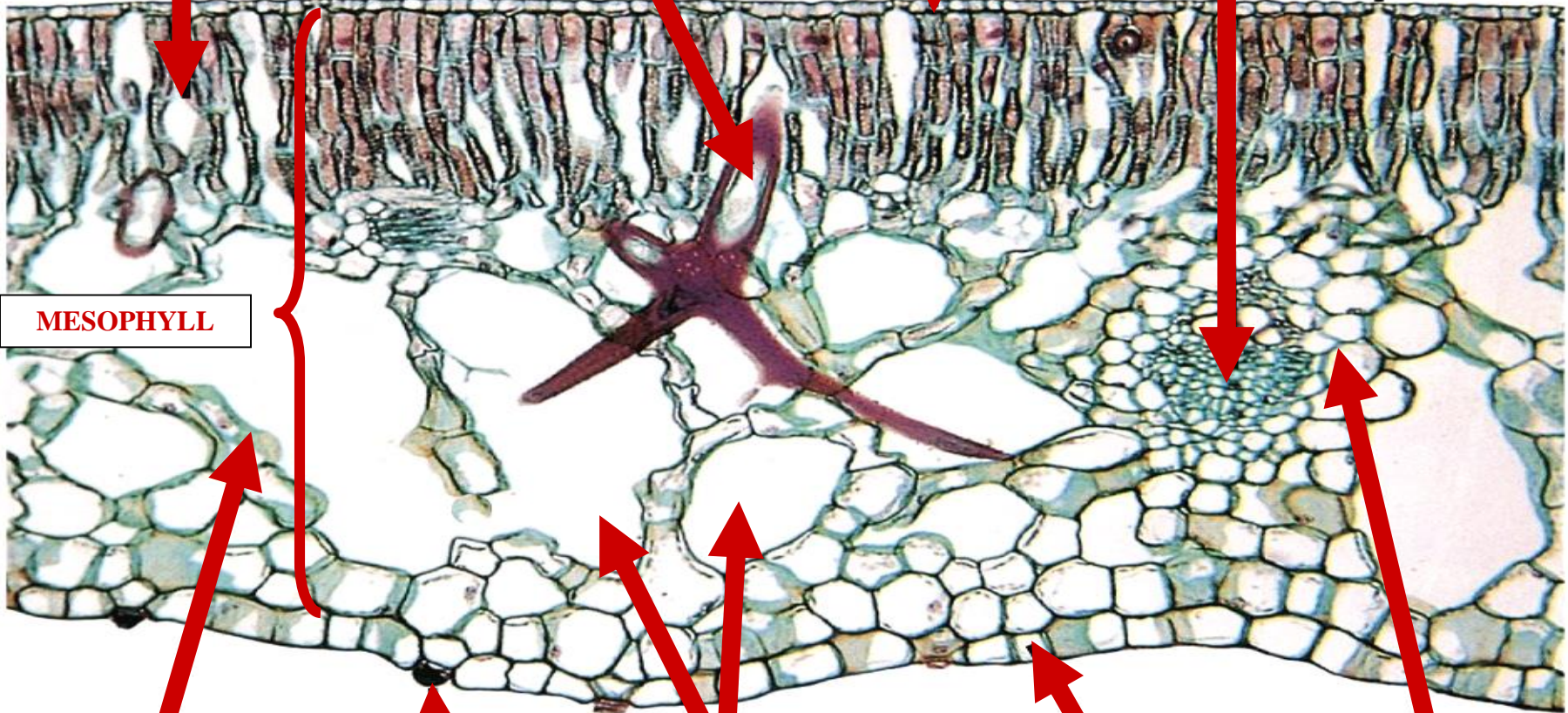


CUTICLE  
ABSENT

ADAXIAL  
EPIDERMIS

STOMATES  
PRESENT

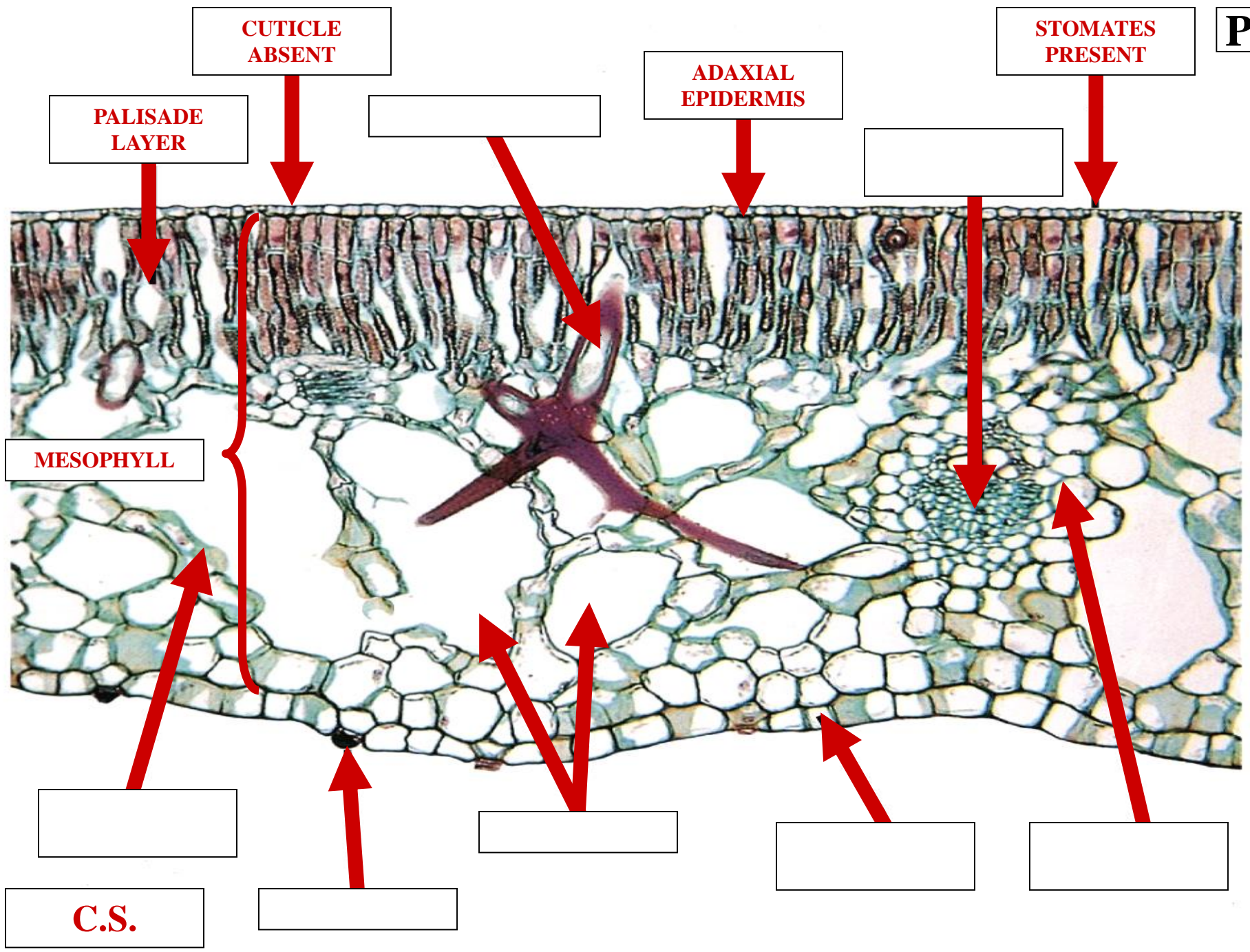
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MESOPHYLL

C.S.







**PALISADE  
MESOPHYLL**

**DICOT LEAF ANATOMY**  
**PALISADE LAYER**



**PRIMARY**  
**PHOTOSYNTHETIC**  
**TISSUE**

**DICOT LEAF ANATOMY**  
**PALISADE LAYER**

CUTICLE  
ABSENT

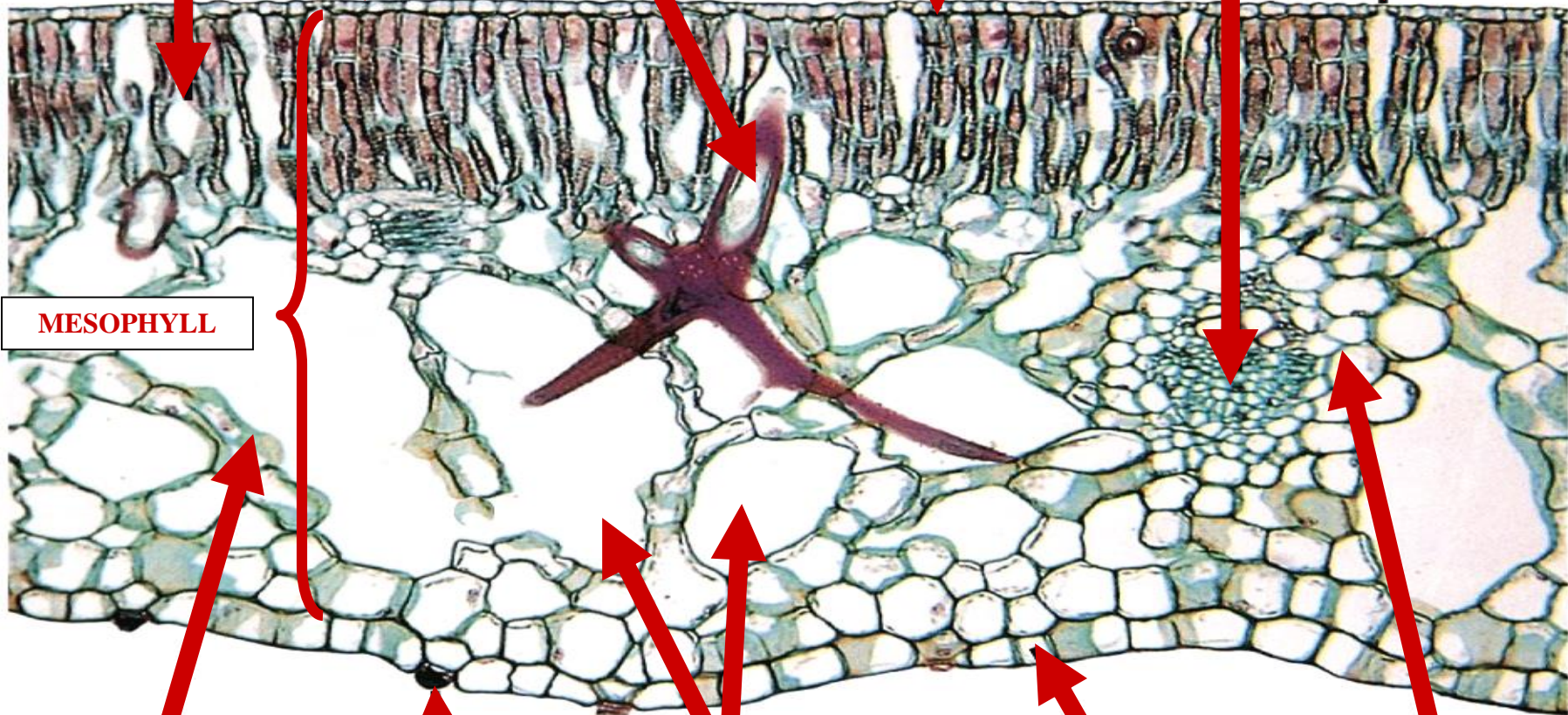
STOMATES  
PRESENT

ADAXIAL  
EPIDERMIS

PALISADE  
LAYER

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MESOPHYLL

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C.S.

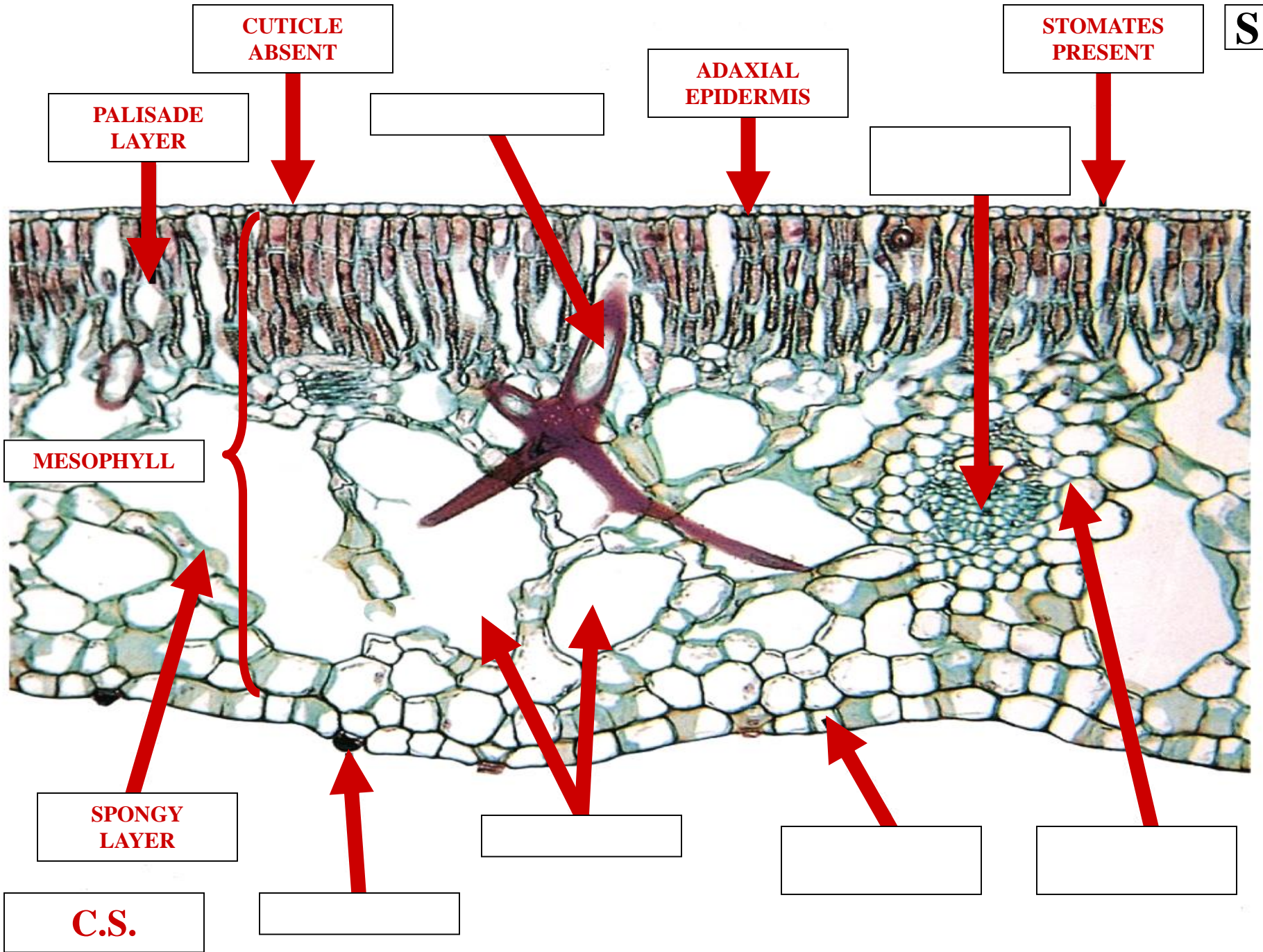
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**SPONGY  
MESOPHYLL**

# **DICOT LEAF ANATOMY**

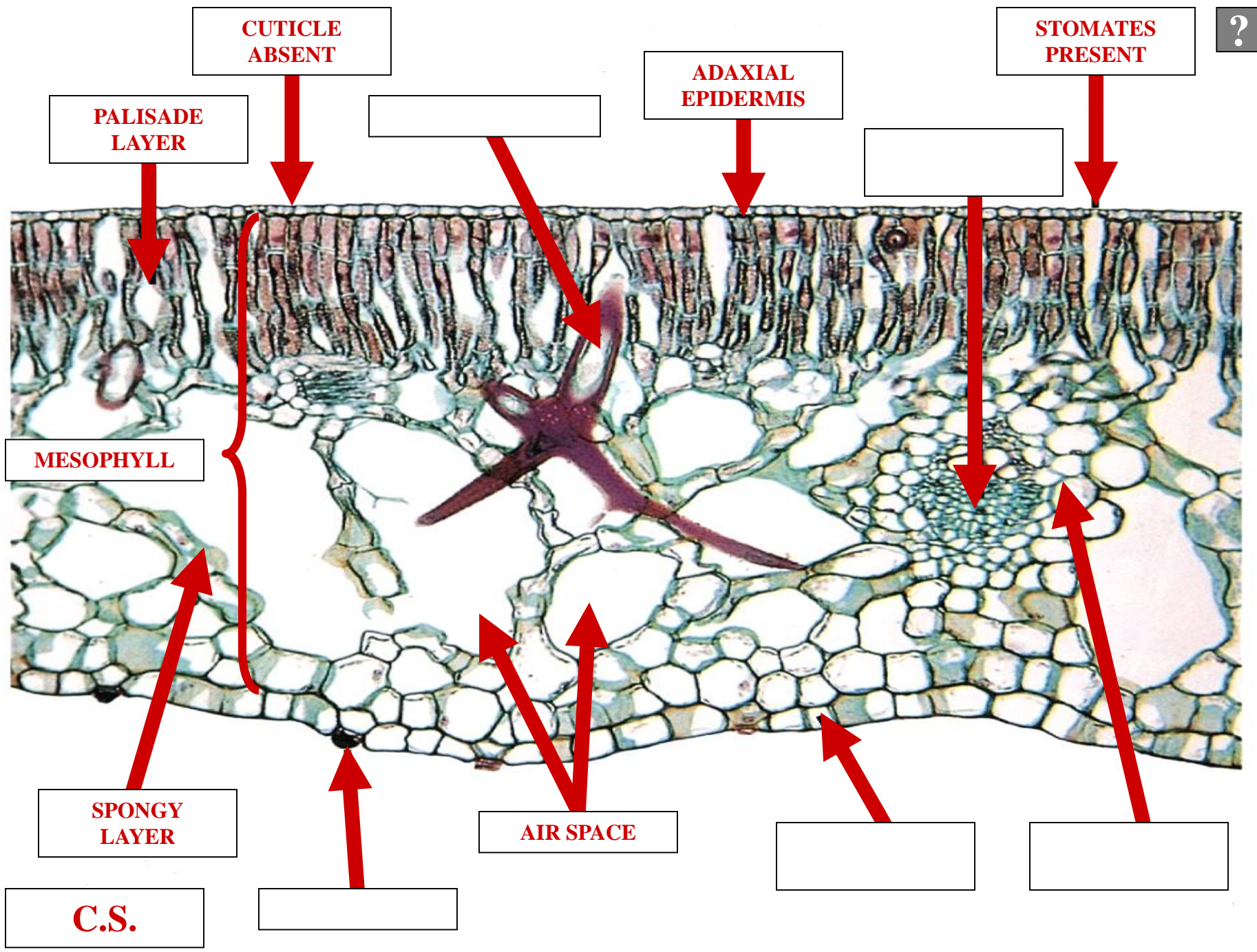
## **SPONGY LAYER**

# **SECONDARY PHOTOSYNTHETIC TISSUE**

# **DICOT LEAF ANATOMY**

## **SPONGY LAYER**





CUTICLE  
ABSENT

PALISADE  
LAYER

ADAXIAL  
EPIDERMIS

STOMATES  
PRESENT

?

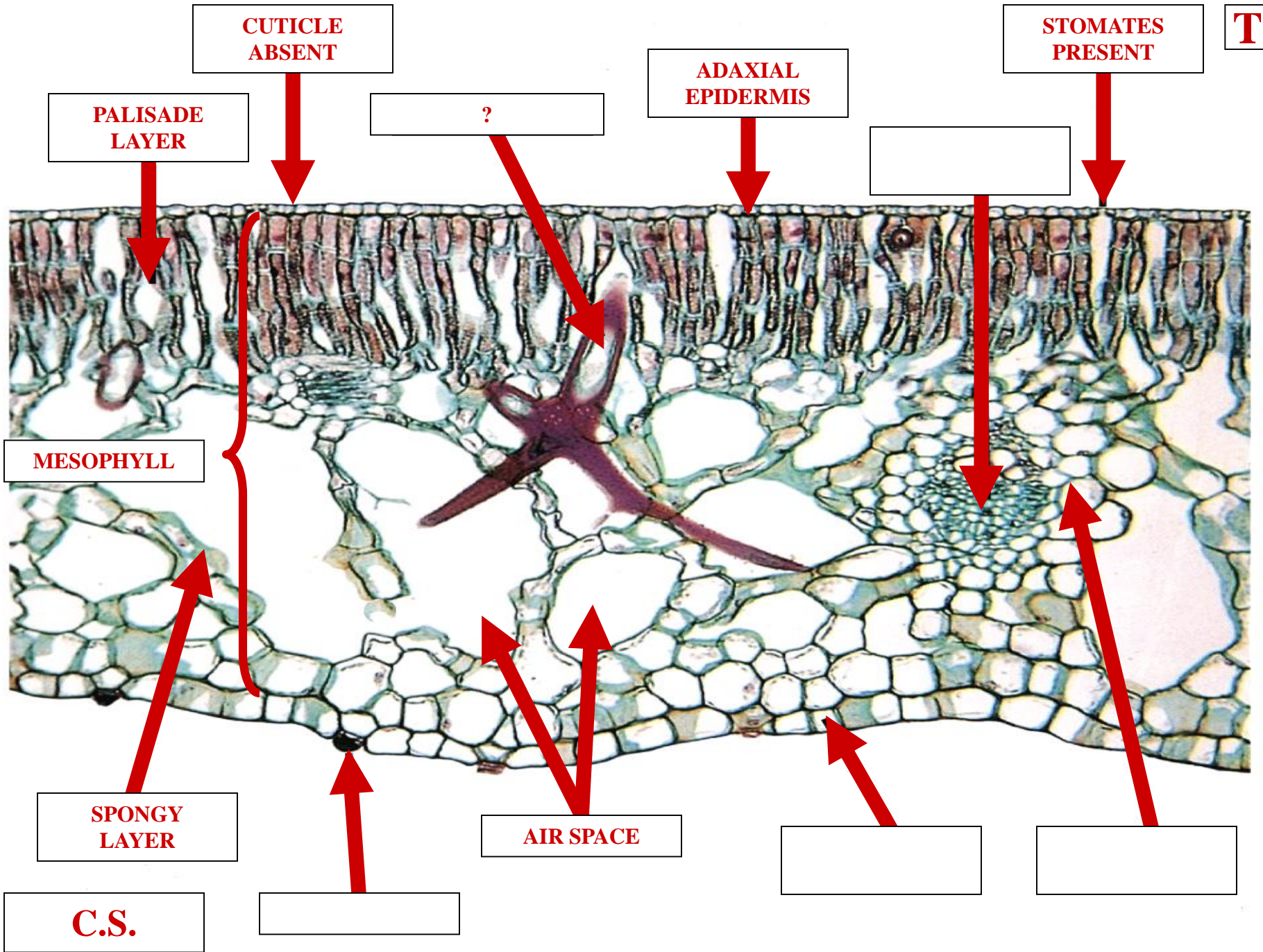
MESOPHYLL

SPONGY  
LAYER

AIR SPACE

C.S.







CUTICLE  
ABSENT

STOMATES  
PRESENT

ADAXIAL  
EPIDERMIS

PALISADE  
LAYER

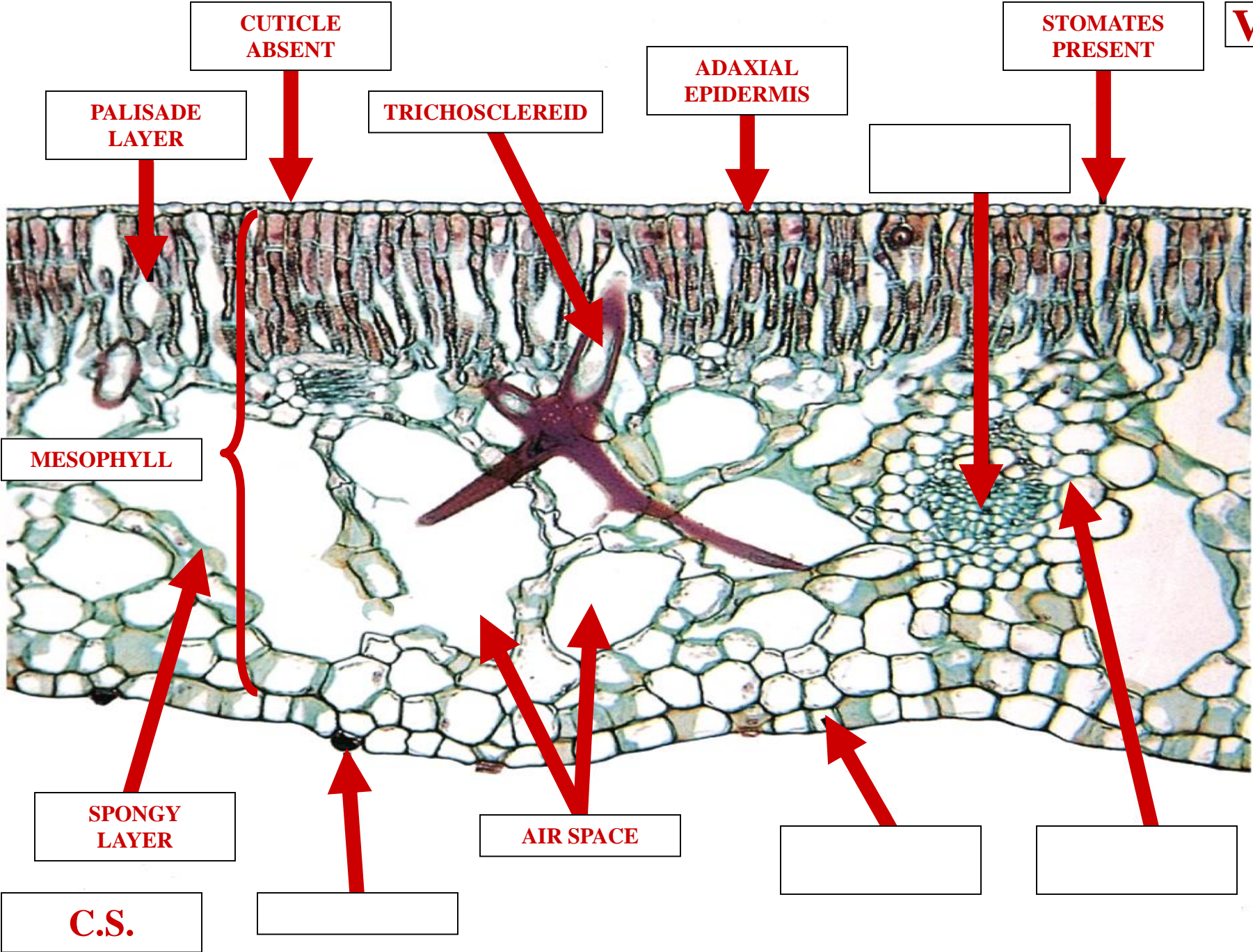
TRICHOSCLEREID

MESOPHYLL

SPONGY  
LAYER

AIR SPACE

C.S.





**B**

**CUTICLE  
ABSENT**

**STOMATES  
PRESENT**

**PALISADE  
LAYER**

**TRICHOSCLEREID**

**ADAXIAL  
EPIDERMIS**

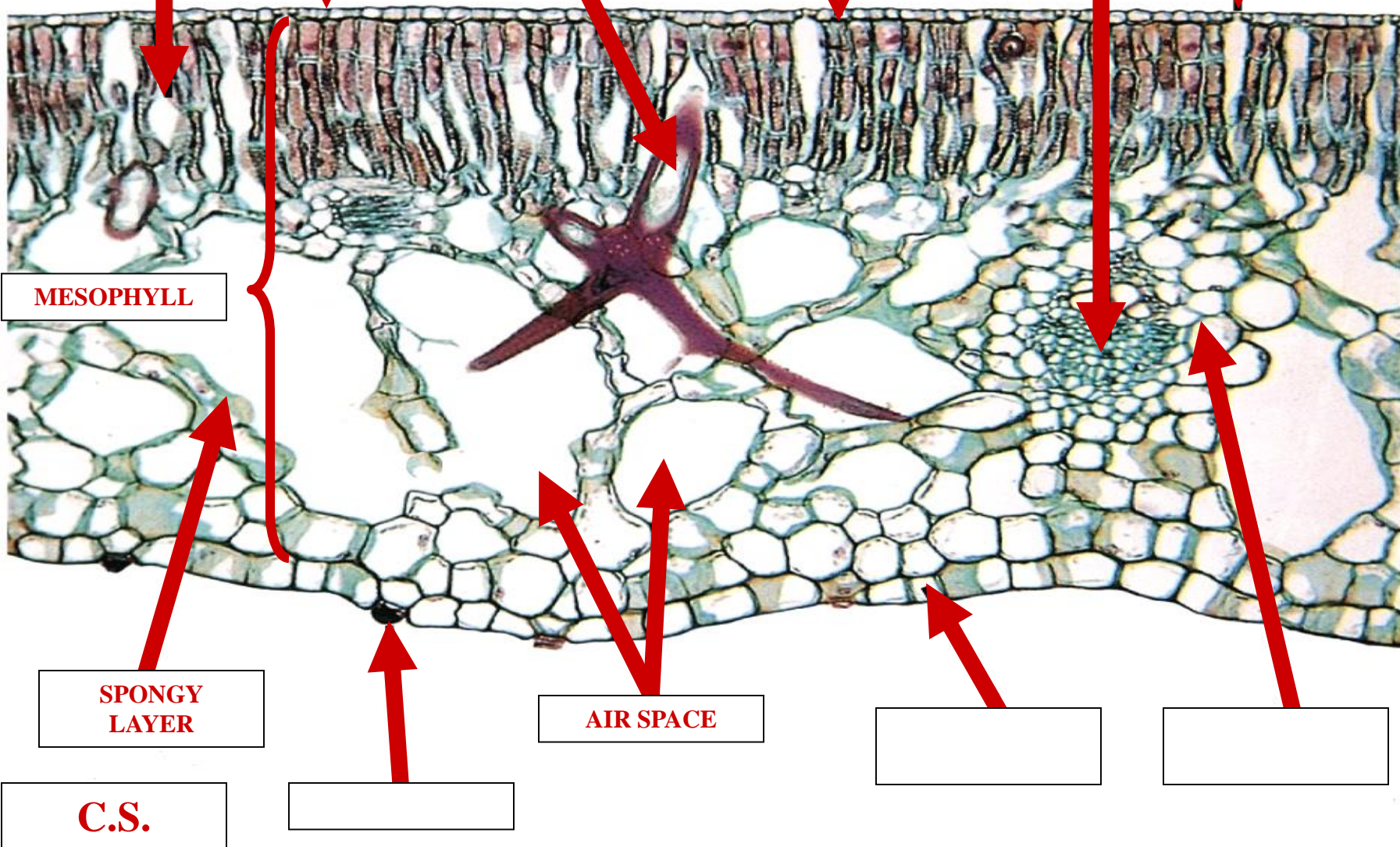
**VASCULAR  
BUNDLE**

**MESOPHYLL**

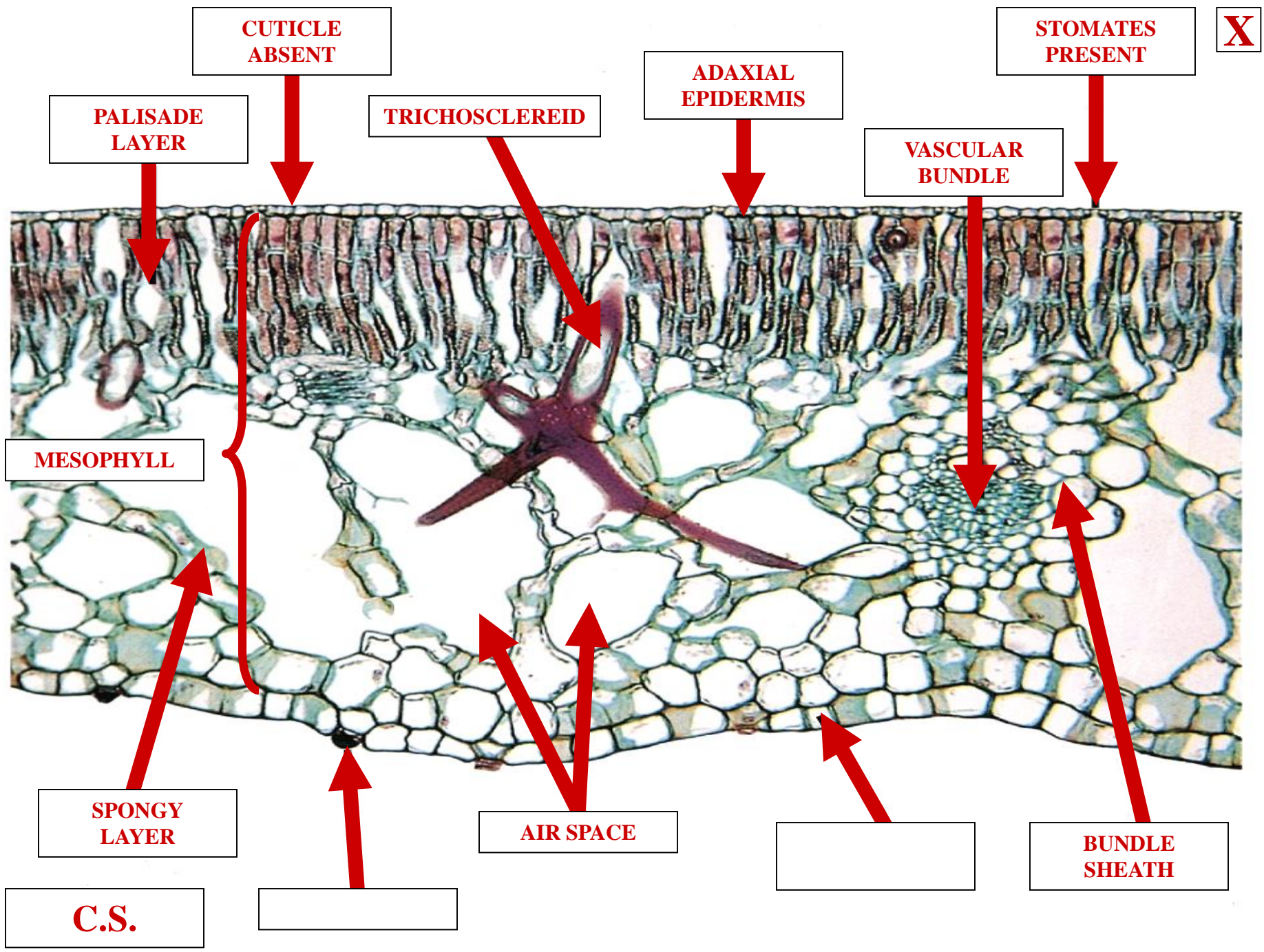
**SPONGY  
LAYER**

**AIR SPACE**

**C.S.**









CUTICLE  
ABSENT

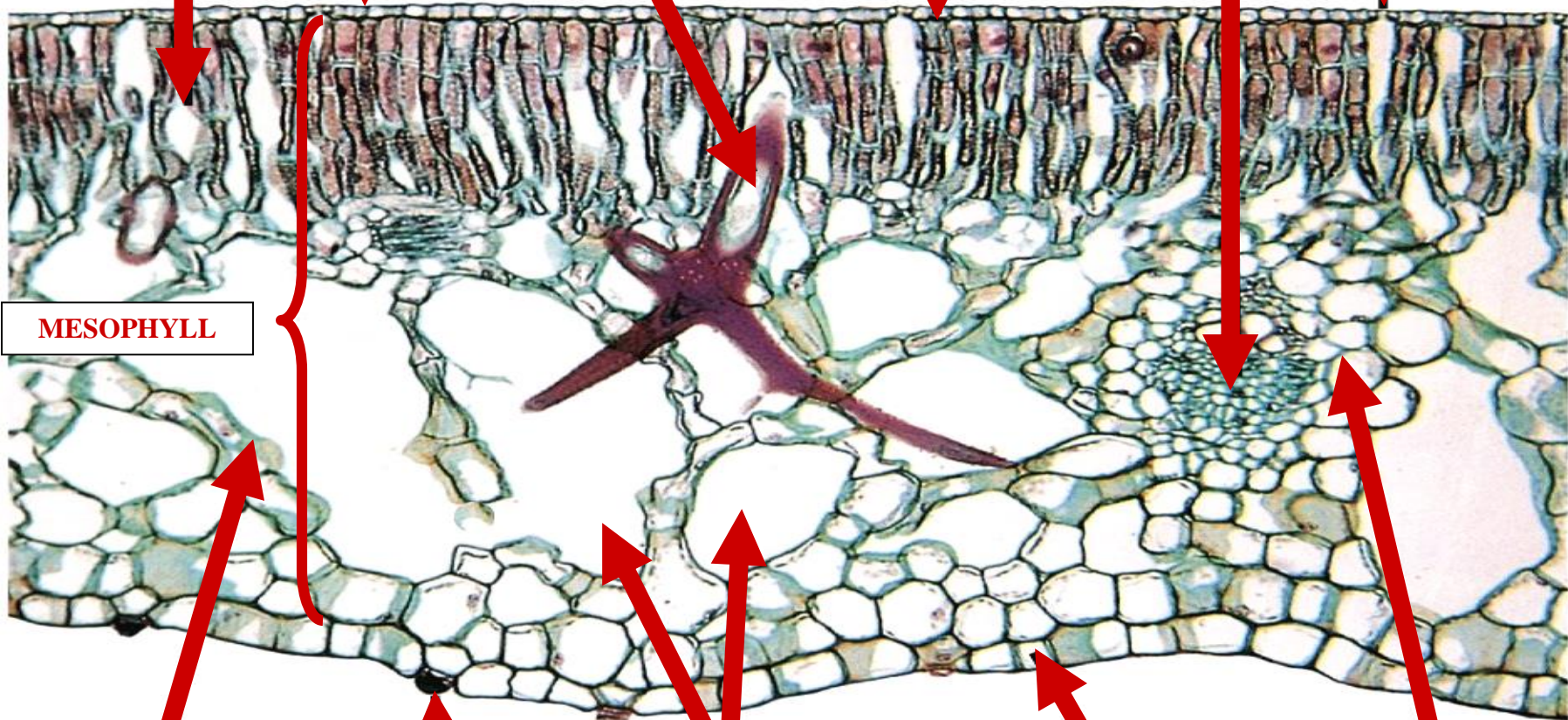
STOMATES  
PRESENT

ADAXIAL  
EPIDERMIS

PALISADE  
LAYER

TRICHOSCLEREID

XYLEM



MESOPHYLL

SPONGY  
LAYER

AIR SPACE

BUNDLE  
SHEATH

C.S.

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CUTICLE  
ABSENT

STOMATES  
PRESENT

PALISADE  
LAYER

TRICHOSCLEREID

ADAXIAL  
EPIDERMIS

PHLOEM

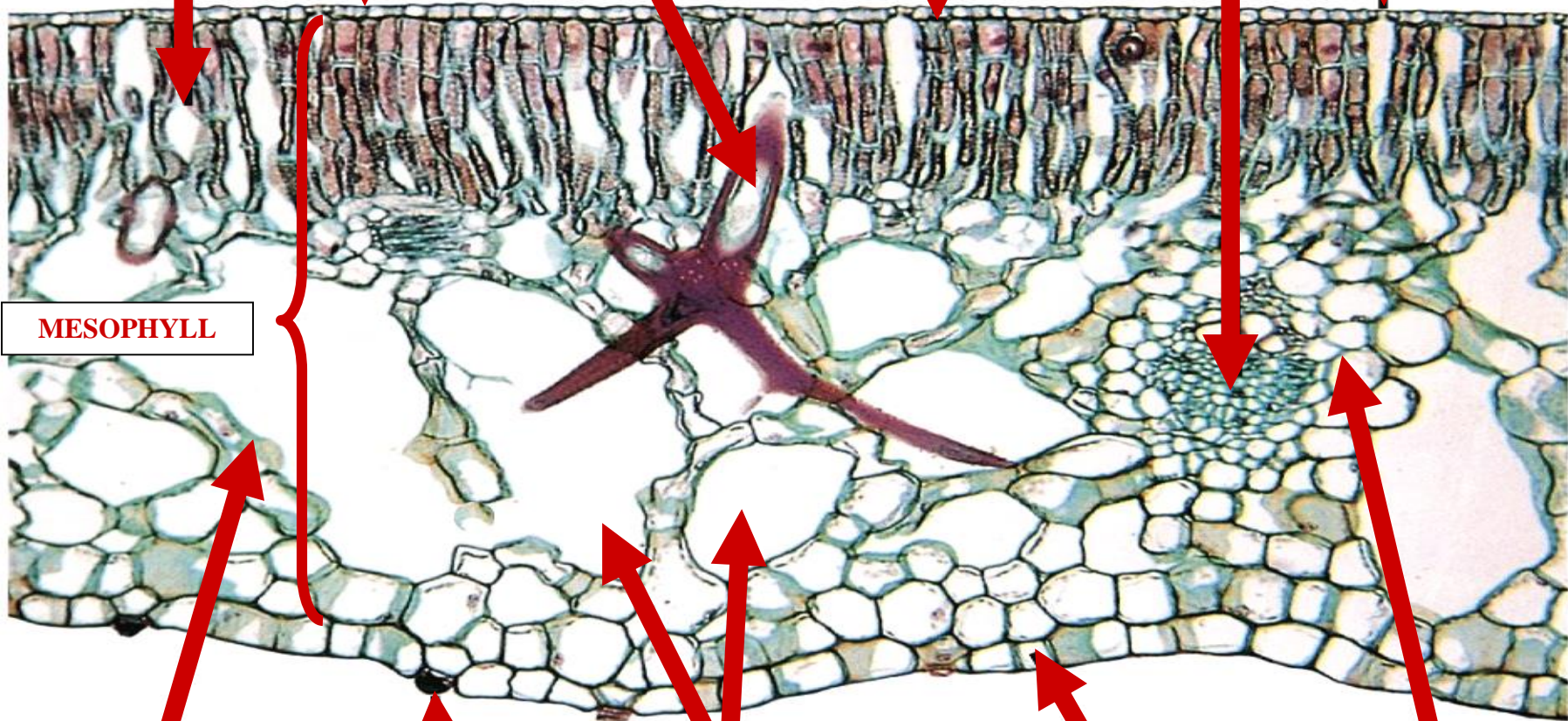
MESOPHYLL

SPONGY  
LAYER

AIR SPACE

BUNDLE  
SHEATH

C.S.





**A**

**CUTICLE  
ABSENT**

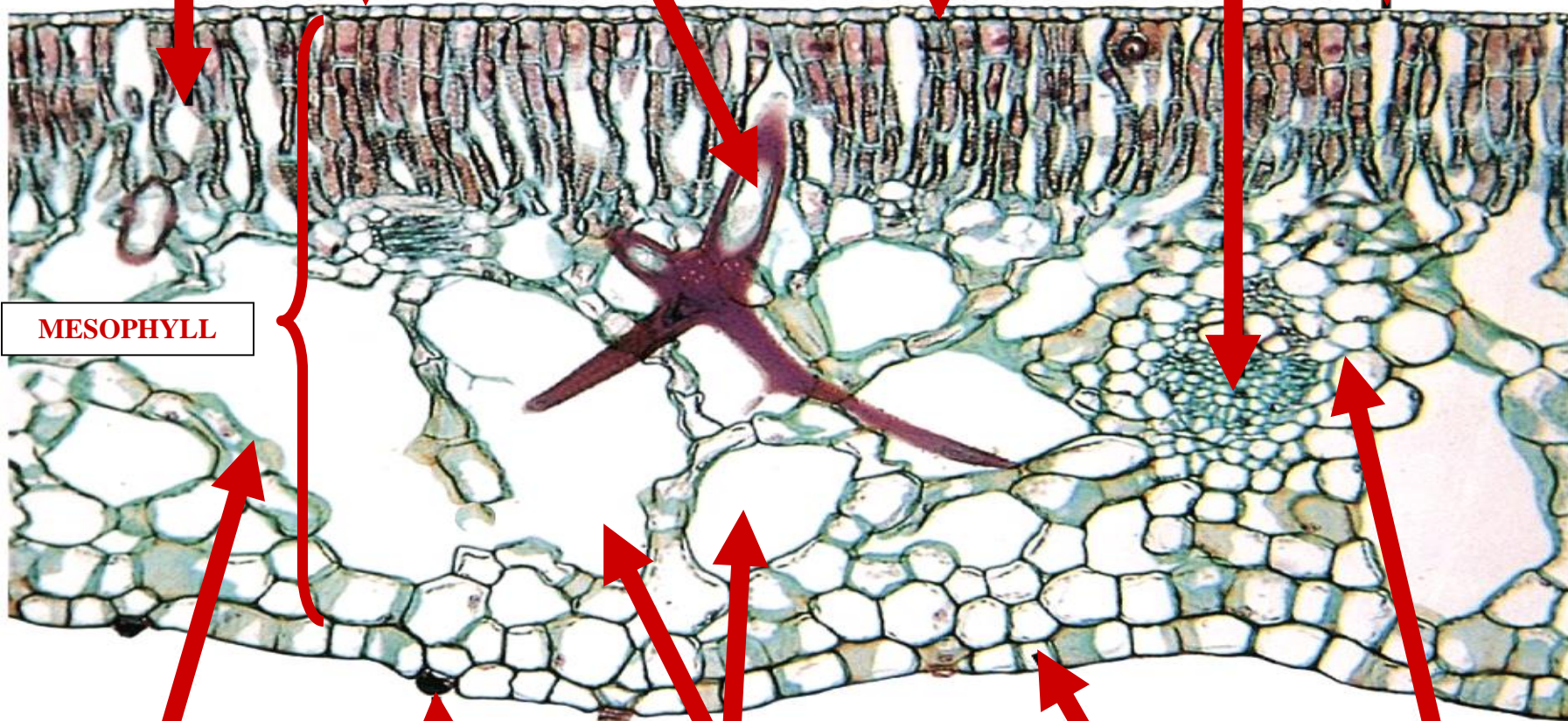
**STOMATES  
PRESENT**

**PALISADE  
LAYER**

**TRICHOSCLEREID**

**ADAXIAL  
EPIDERMIS**

**PHLOEM**



**MESOPHYLL**

**SPONGY  
LAYER**

**AIR SPACE**

**?**

**BUNDLE  
SHEATH**

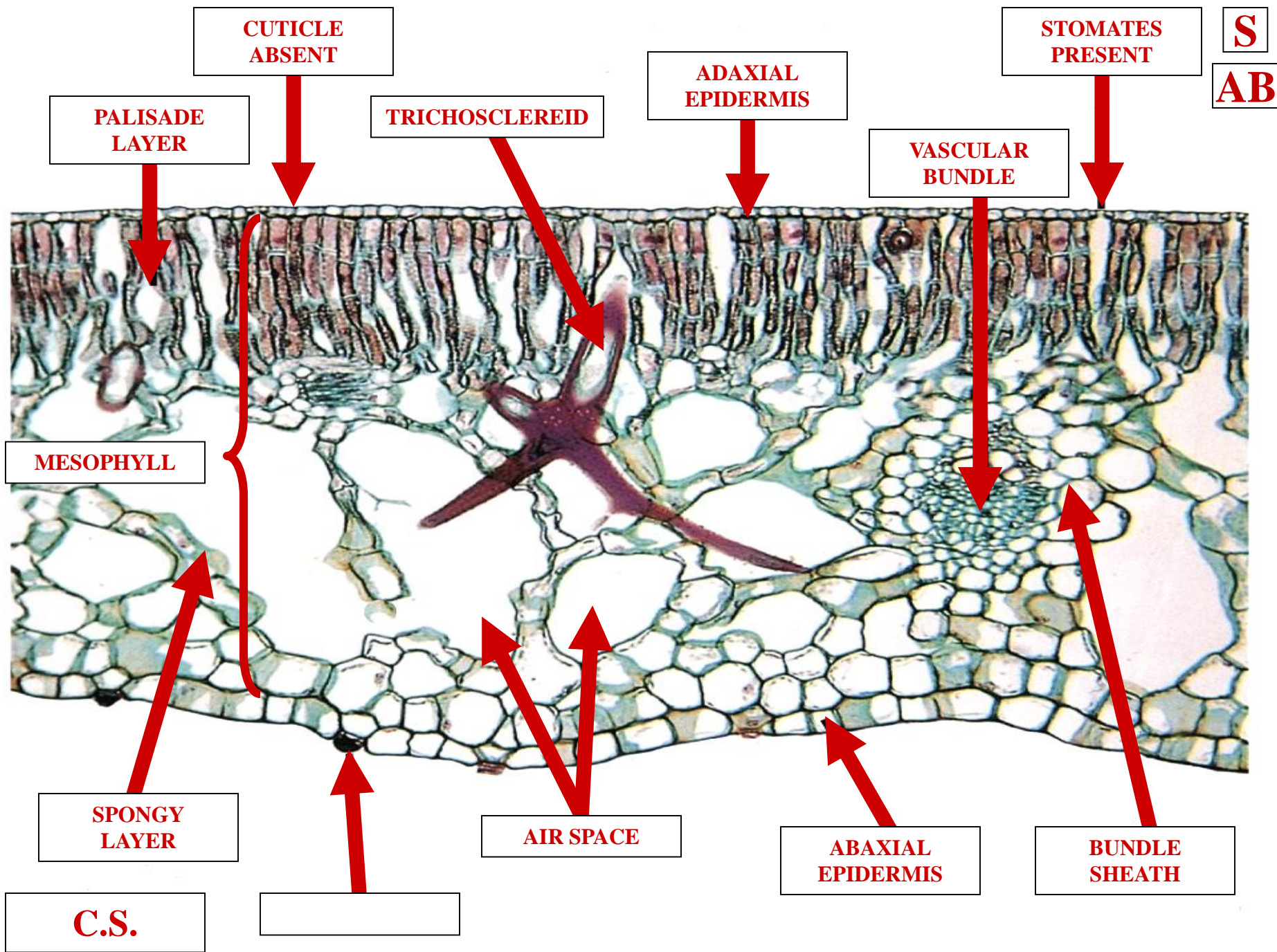
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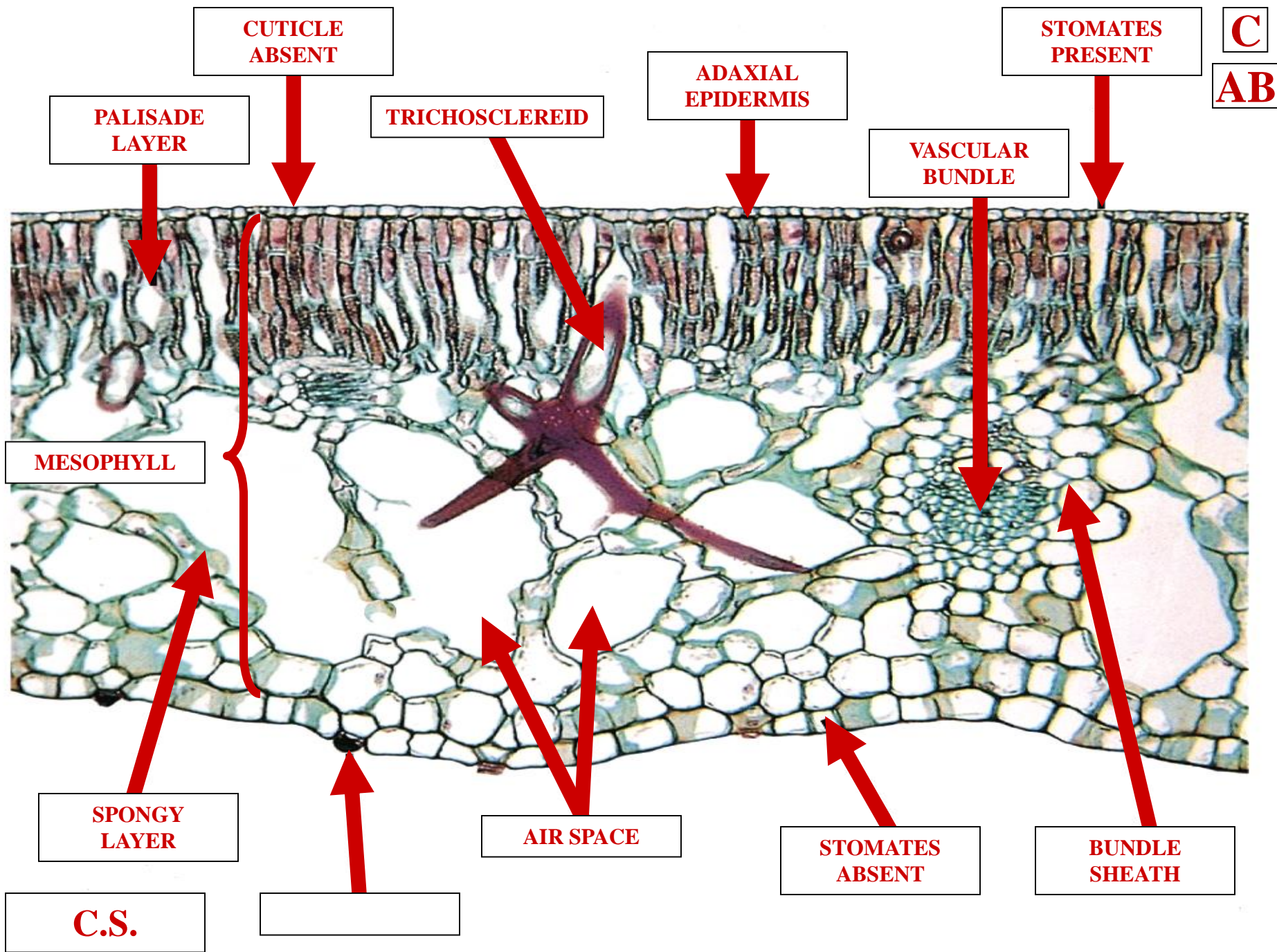
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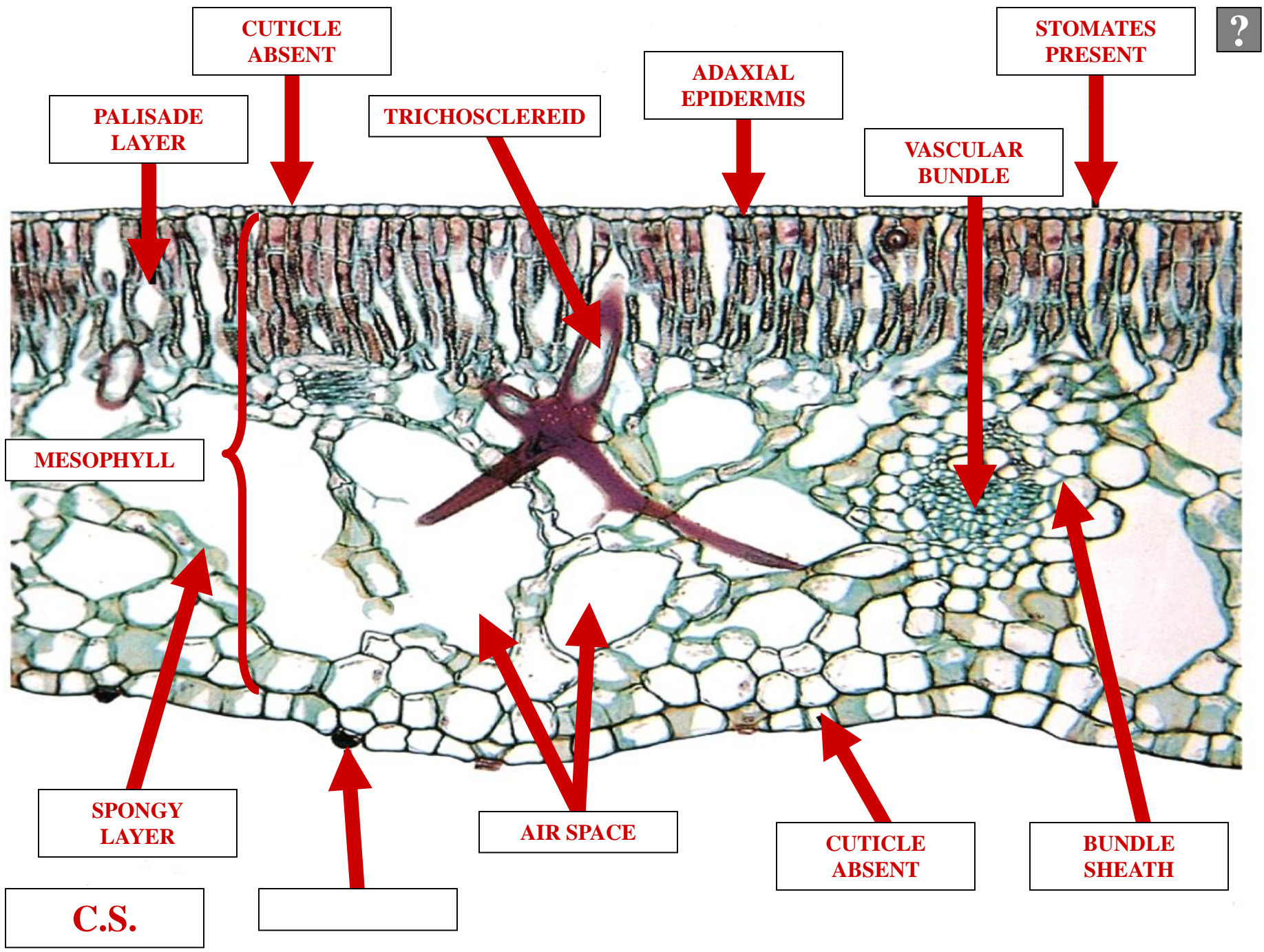














**T**

**CUTICLE  
ABSENT**

**STOMATES  
PRESENT**

**PALISADE  
LAYER**

**TRICHOSCLEREID**

**ADAXIAL  
EPIDERMIS**

**VASCULAR  
BUNDLE**

**MESOPHYLL**

**SPONGY  
LAYER**

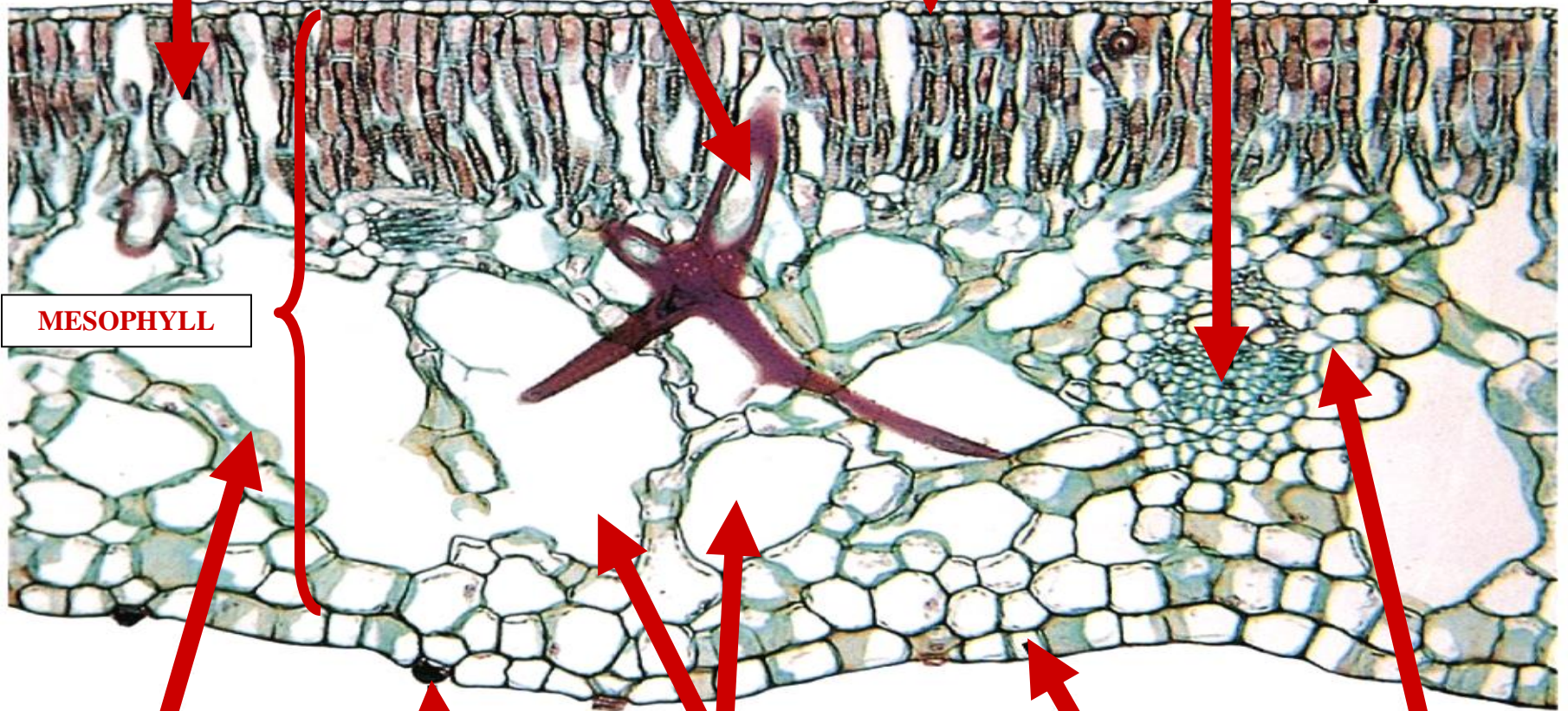
**AIR SPACE**

**CUTICLE  
ABSENT**

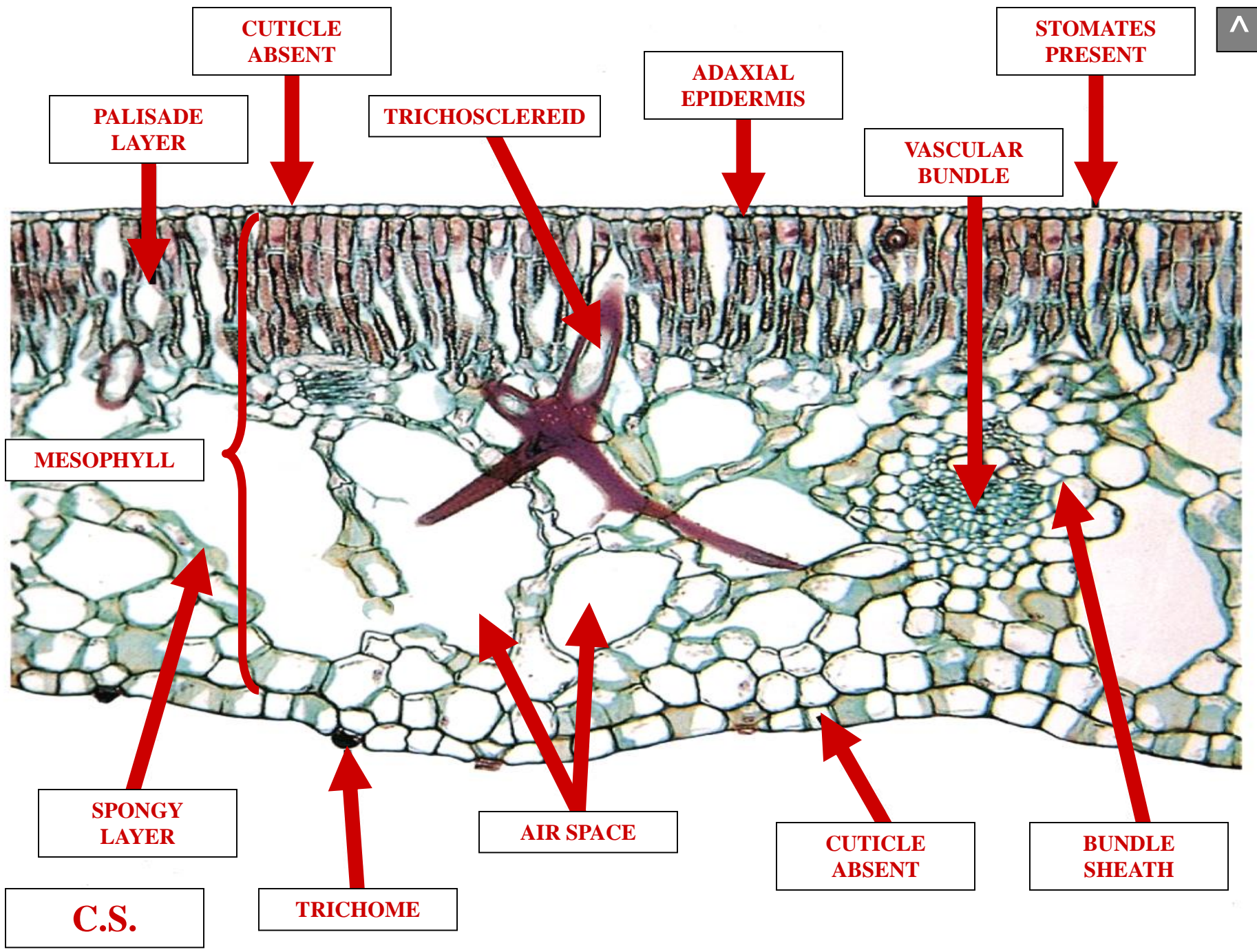
**BUNDLE  
SHEATH**

**C.S.**

**?**









# MESOPHYTE LEAF

# **MESOPHYTE LEAF**

**DICOT LEAF ANATOMY**



**MESOPHYTE**

**ADAPTED**

**MODERATE MOISTURE**

**HABITAT**

**DICOT LEAF ANATOMY**

**MESOPHYTE**

EG



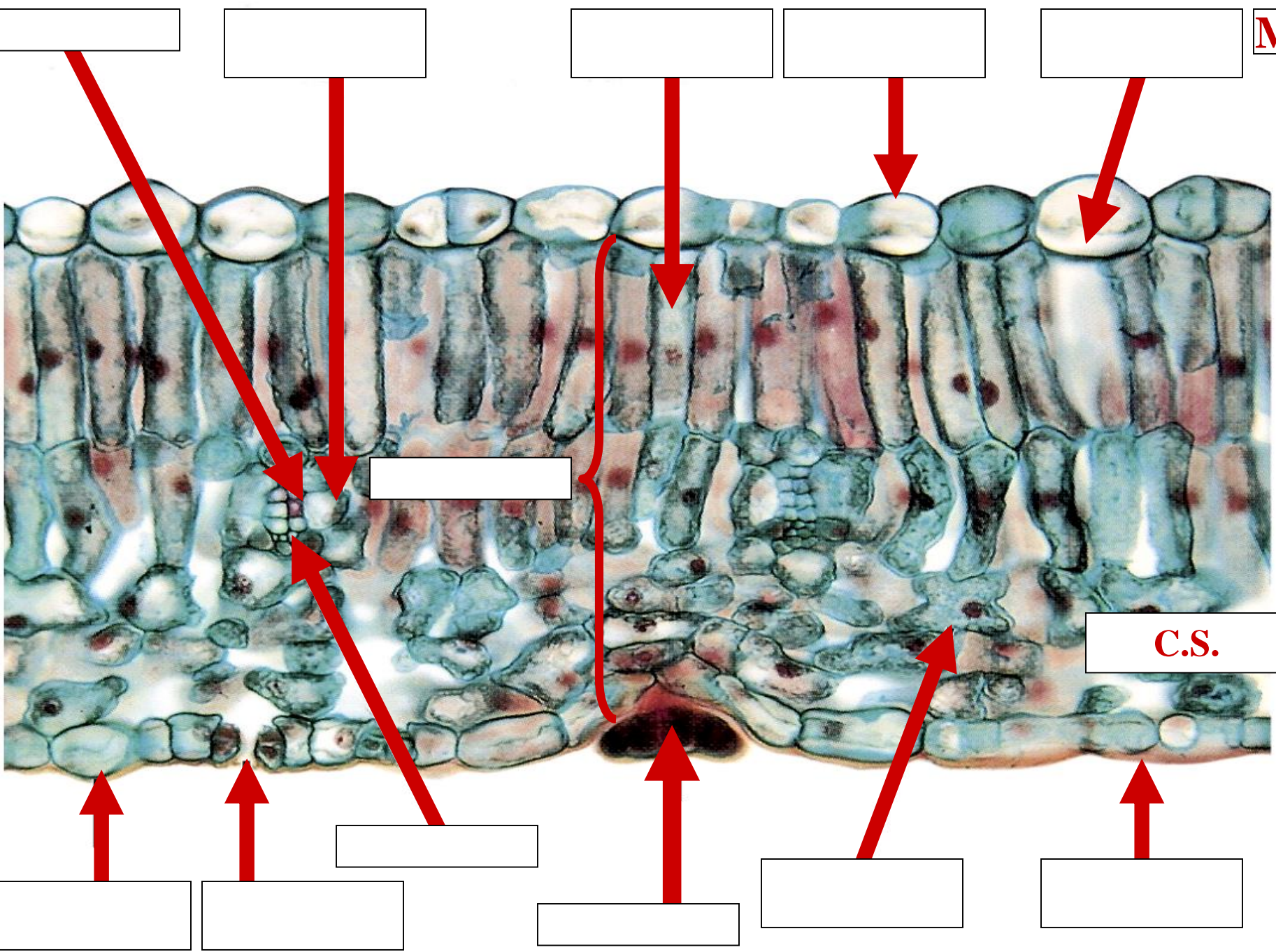
# MESIC HABITAT ALABAMA FOREST





***ACER***





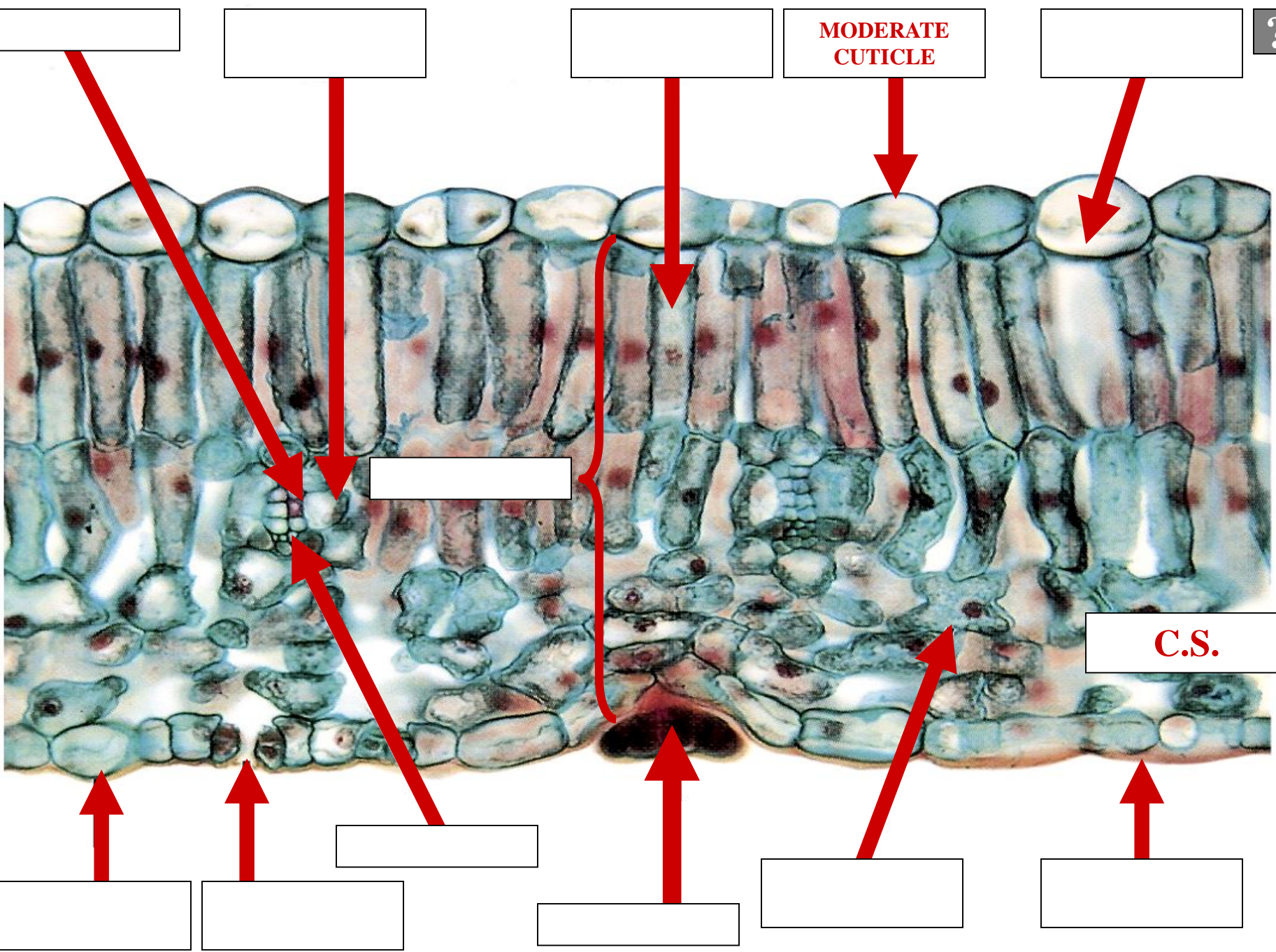
C.S.



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**MODERATE  
CUTICLE**

**C.S.**

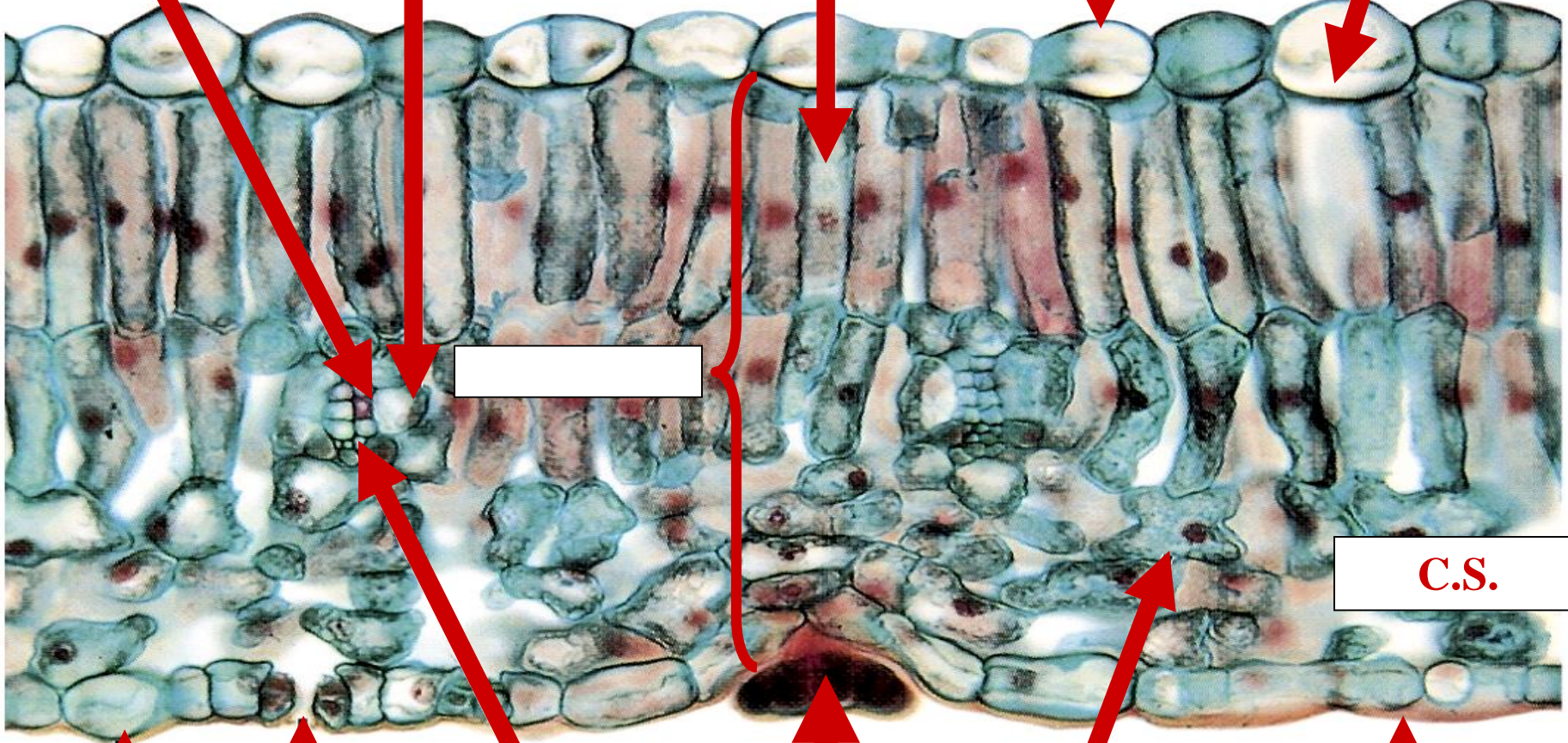




**A**

**MODERATE CUTICLE**

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**C.S.**

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**MODERATE CUTICLE**

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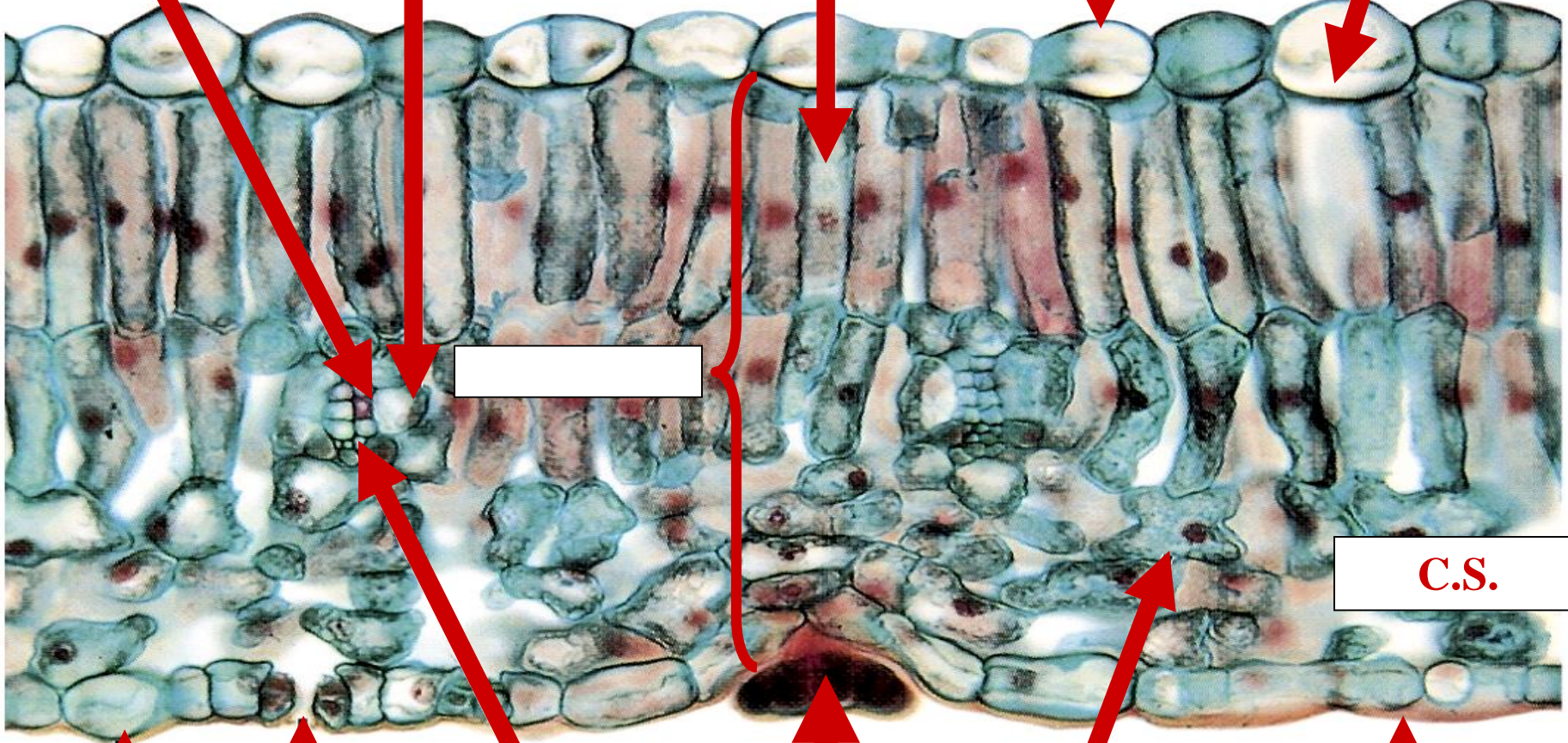
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**S**

**MODERATE CUTICLE**

**ADAXIAL EPIDERMIS**



**C.S.**

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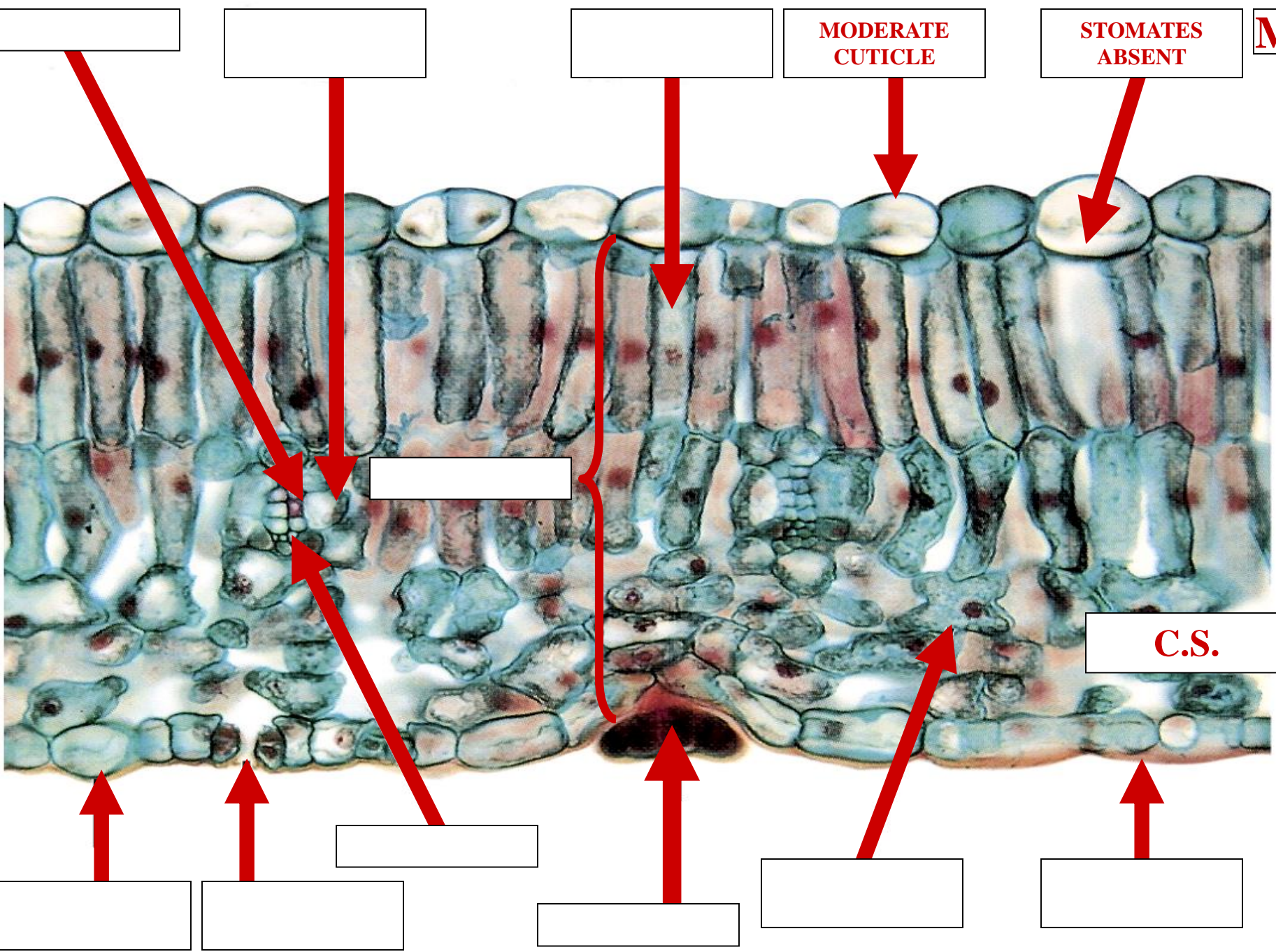
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MODERATE CUTICLE

STOMATES ABSENT



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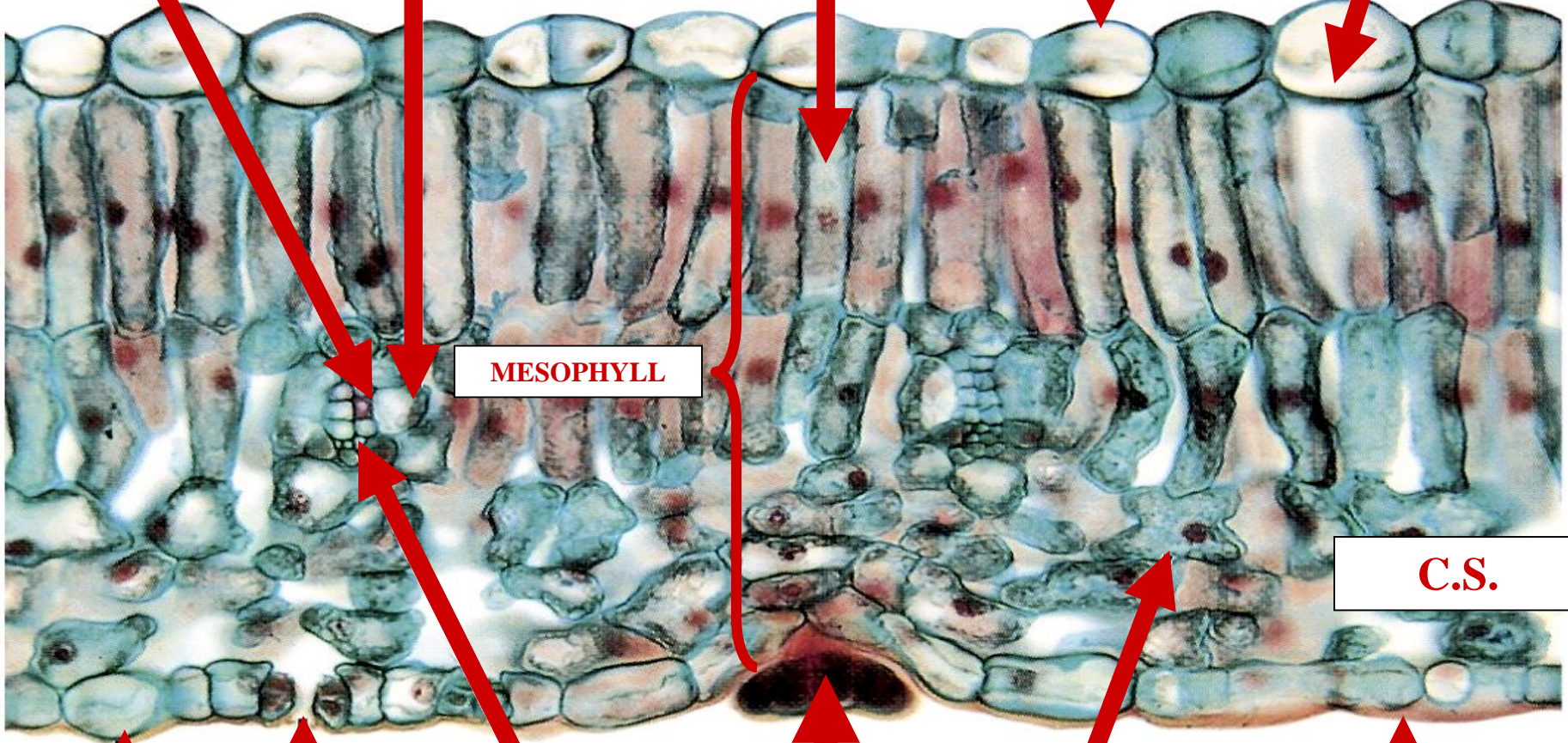


MODERATE CUTICLE

STOMATES ABSENT

MESOPHYLL

C.S.



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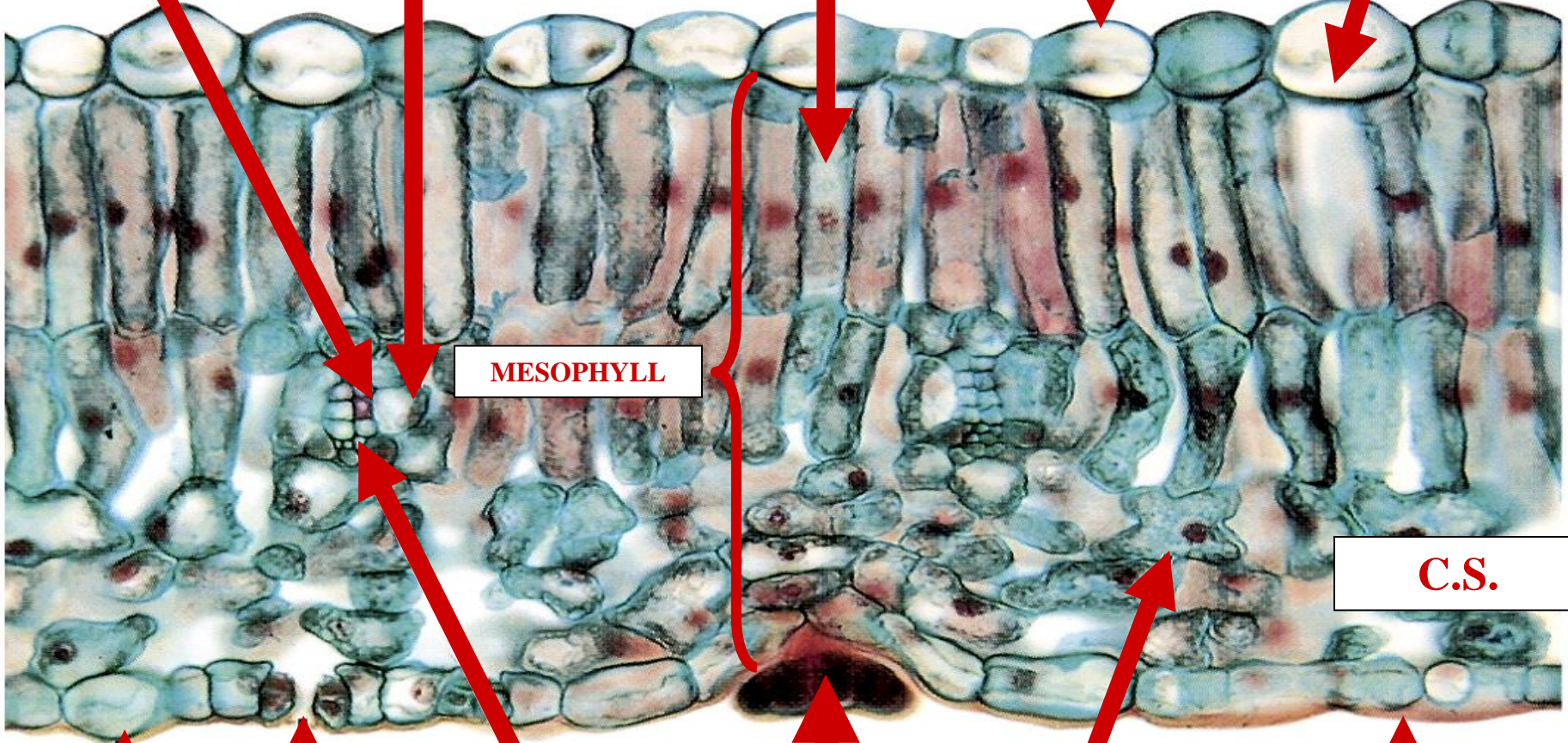
PALISADE  
LAYER

MODERATE  
CUTICLE

STOMATES  
ABSENT

MESOPHYLL

C.S.



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PALISADE  
LAYER

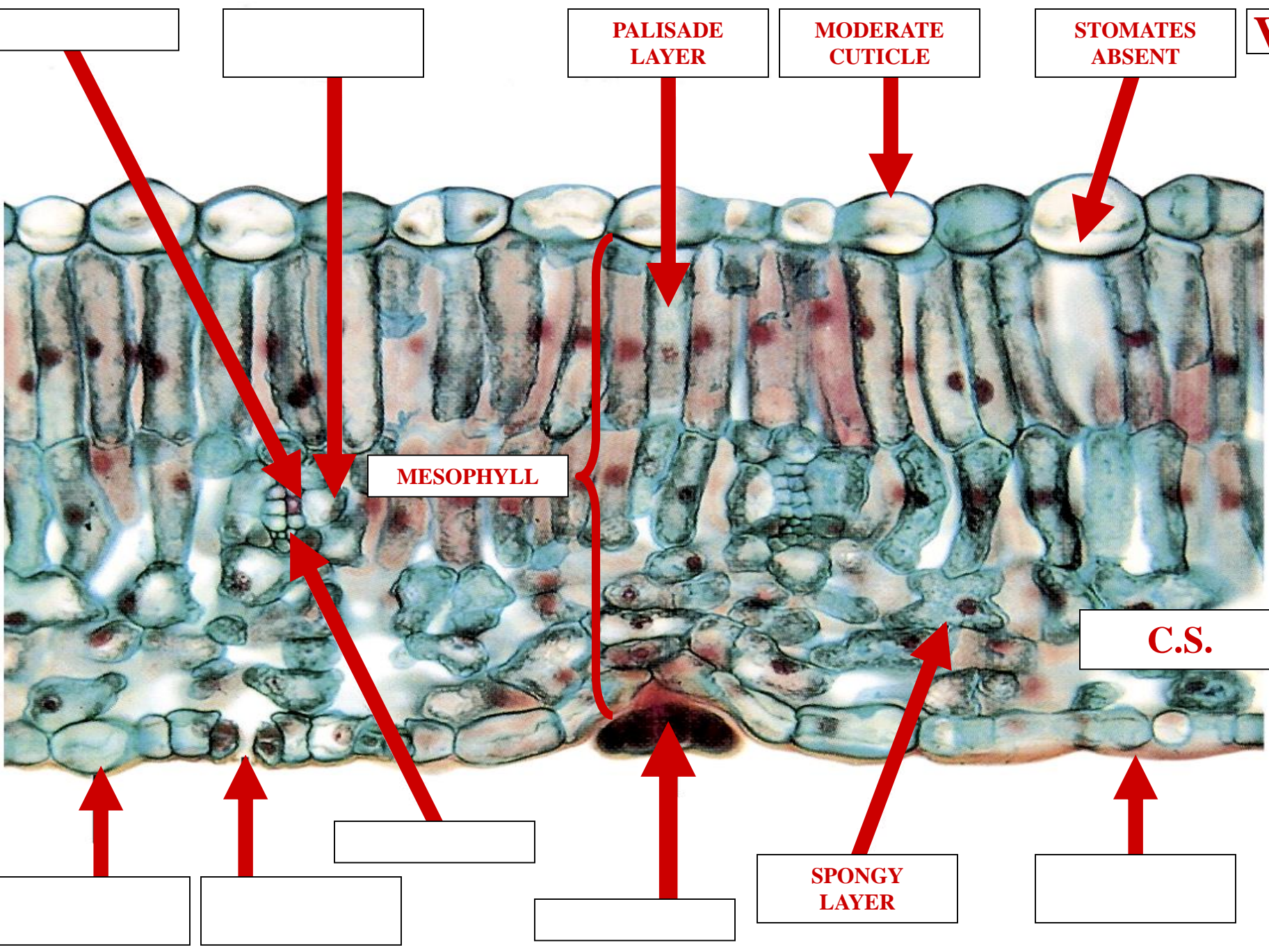
MODERATE  
CUTICLE

STOMATES  
ABSENT

MESOPHYLL

C.S.

SPONGY  
LAYER



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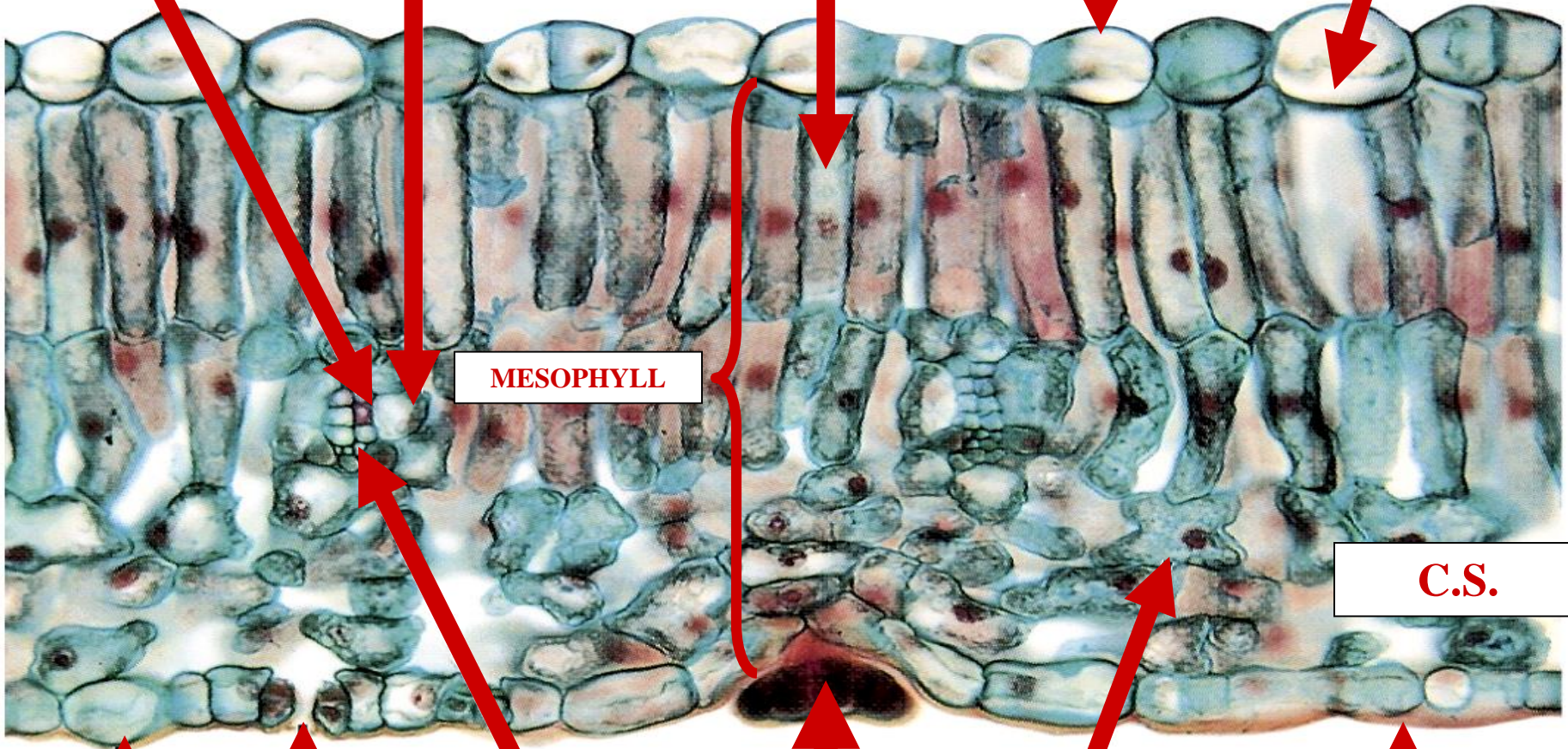
VASCULAR BUNDLE

PALISADE LAYER

MODERATE CUTICLE

STOMATES ABSENT

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MESOPHYLL

C.S.

SPONGY LAYER

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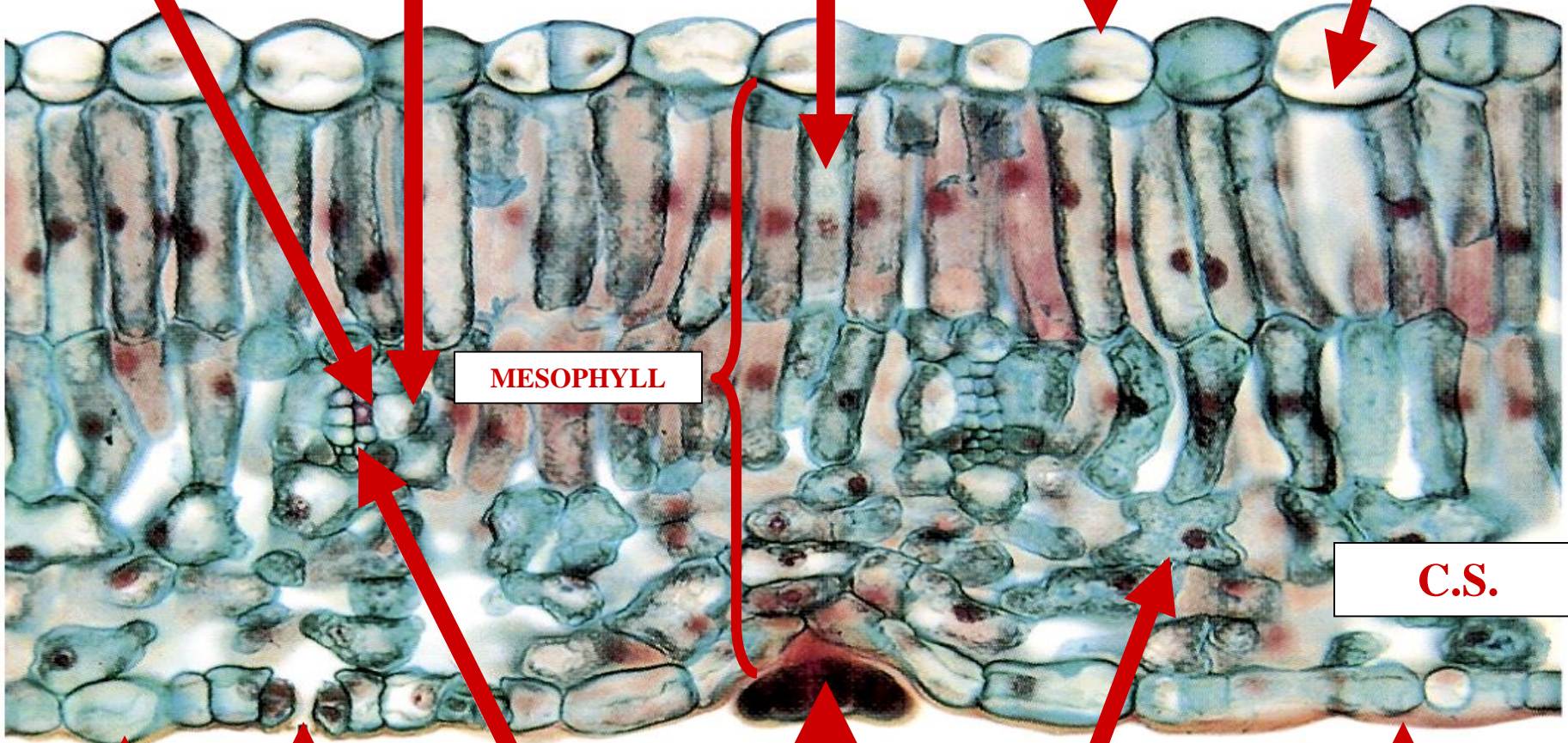
XYLEM

VASCULAR BUNDLE

PALISADE LAYER

MODERATE CUTICLE

STOMATES ABSENT



MESOPHYLL

C.S.

SPONGY LAYER

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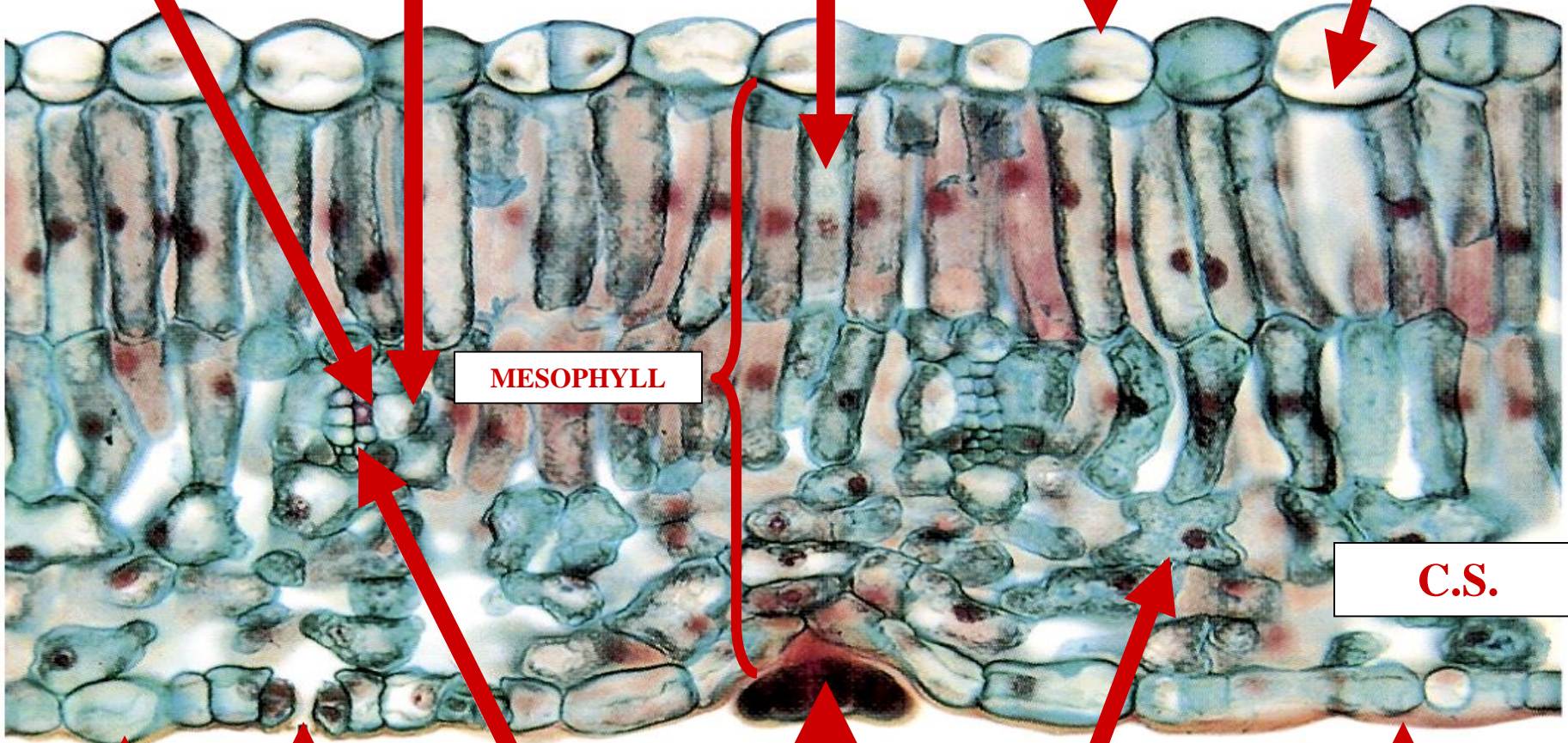
**XYLEM**

**VASCULAR BUNDLE**

**PALISADE LAYER**

**MODERATE CUTICLE**

**STOMATES ABSENT**



**MESOPHYLL**

**C.S.**

**PHLOEM**

**SPONGY LAYER**

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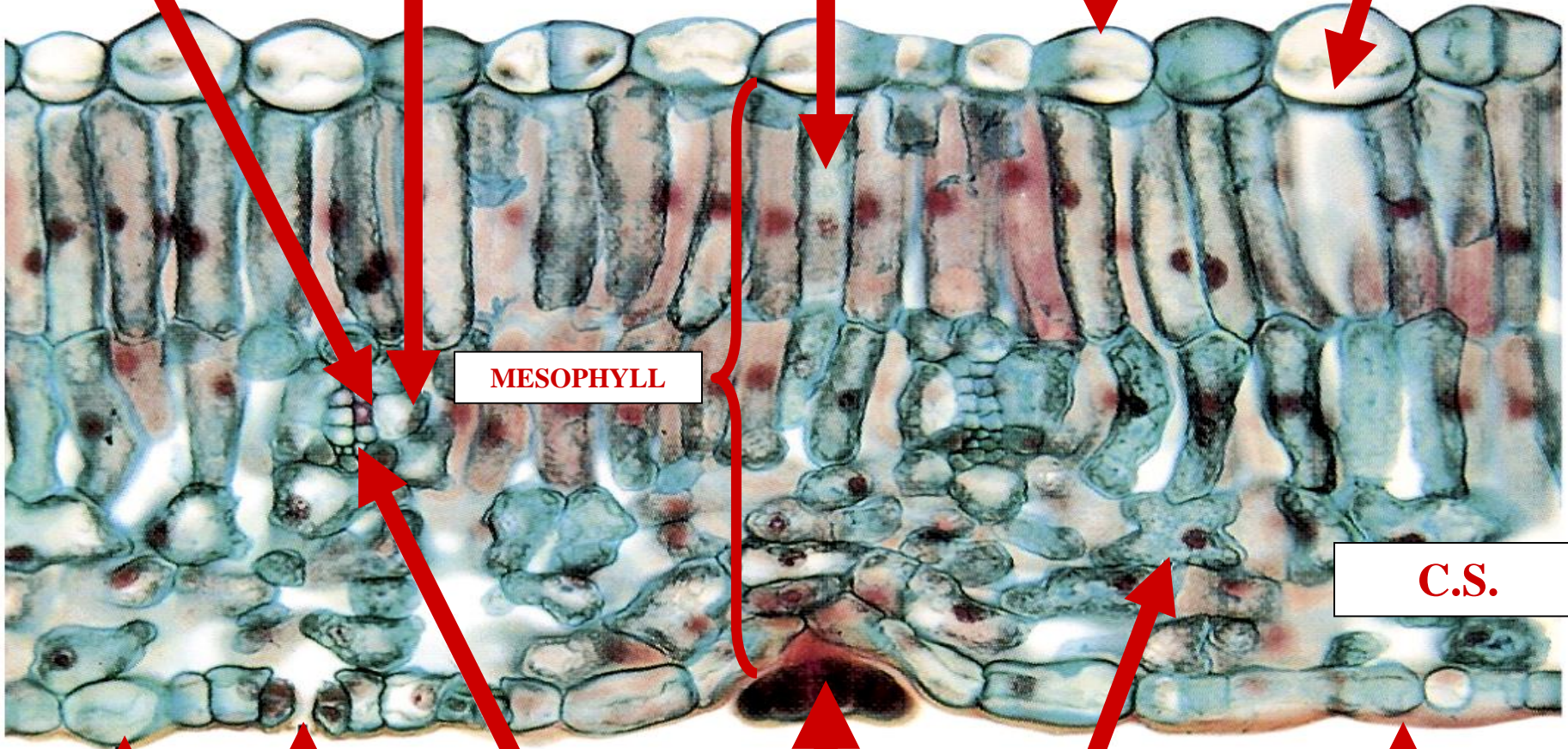
**XYLEM**

**VASCULAR BUNDLE**

**PALISADE LAYER**

**MODERATE CUTICLE**

**STOMATES ABSENT**



**MESOPHYLL**

**C.S.**

**PHLOEM**

**SPONGY LAYER**

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