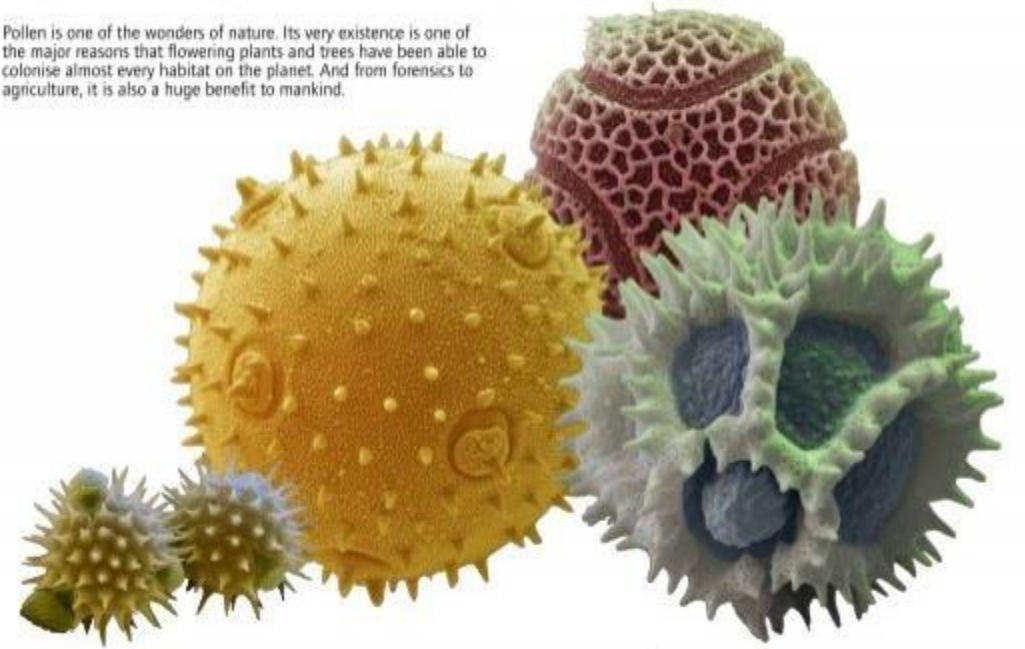


Activity 1.5

Looking at pollen grain

POLLEN UNDER THE MICROSCOPE

Pollen is one of the wonders of nature. Its very existence is one of the major reasons that flowering plants and trees have been able to colonise almost every habitat on the planet. And from forensics to agriculture, it is also a huge benefit to mankind.



Each pair or group will need:

- Needle (or wire loop)
- Pipette tips
- Tweezers
- a microscope and light source
- * two clean microscope slides
- * flowers with pollen on their anthers – at least two different types

Step 1

Collect a microscope and set it up with the low power objective lens over the stage.



Step 2

Collect a clean microscope slide.

Carefully tap a little pollen from a flower onto the centre of the slide.

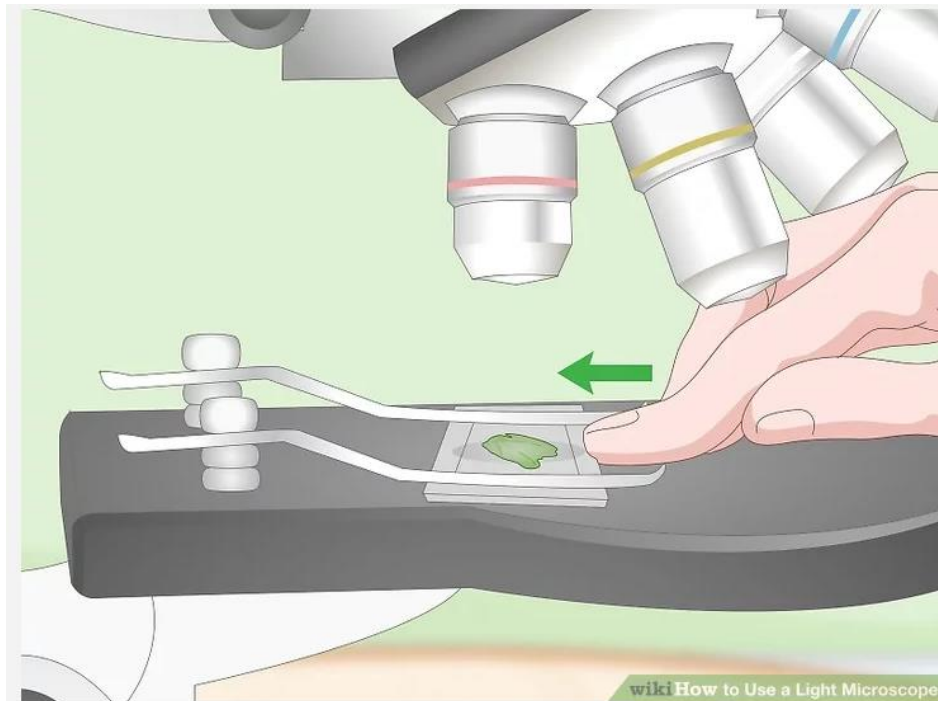


Step 3

Place the slide on the stage of the microscope.

Focus on the pollen.

Make a drawing of one or two pollen grains.



Step 4

Repeat steps 2 and 3 using pollen from a different kind of flower.

Step 5

Describe any differences that you can see between the two types of pollen.

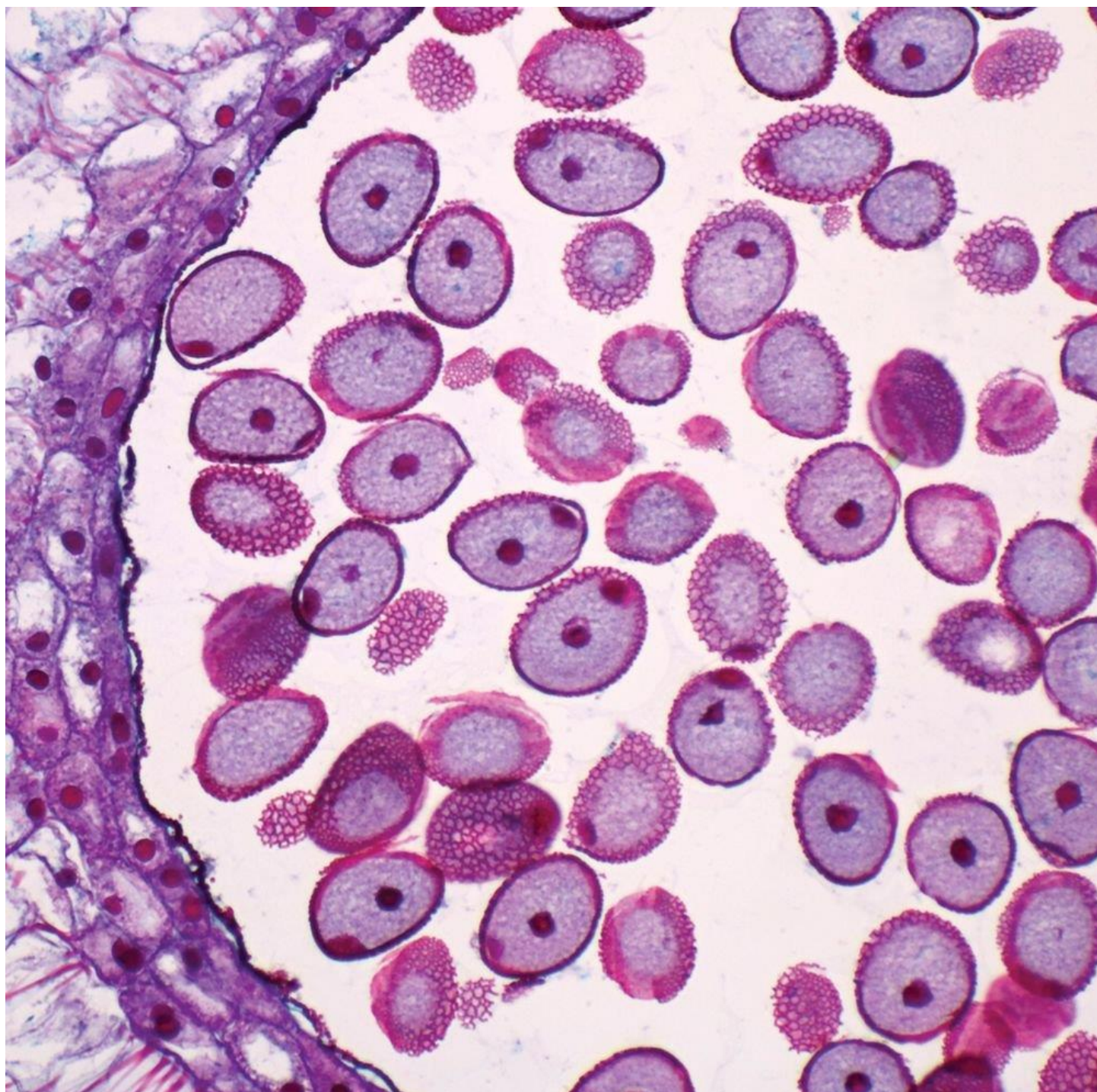
| Feature | Pollen grain A / Slide 2 | Pollen grain B / Slide 3 |
|----------|-----------------------------|-----------------------------|
| Гадаргуу | Өргөсгүй, гөлгөр | Өргөстэй, барзгар |
| Хэлбэр | | |
| | | |
| | | |
| | | |

Slide 1

Lily anther

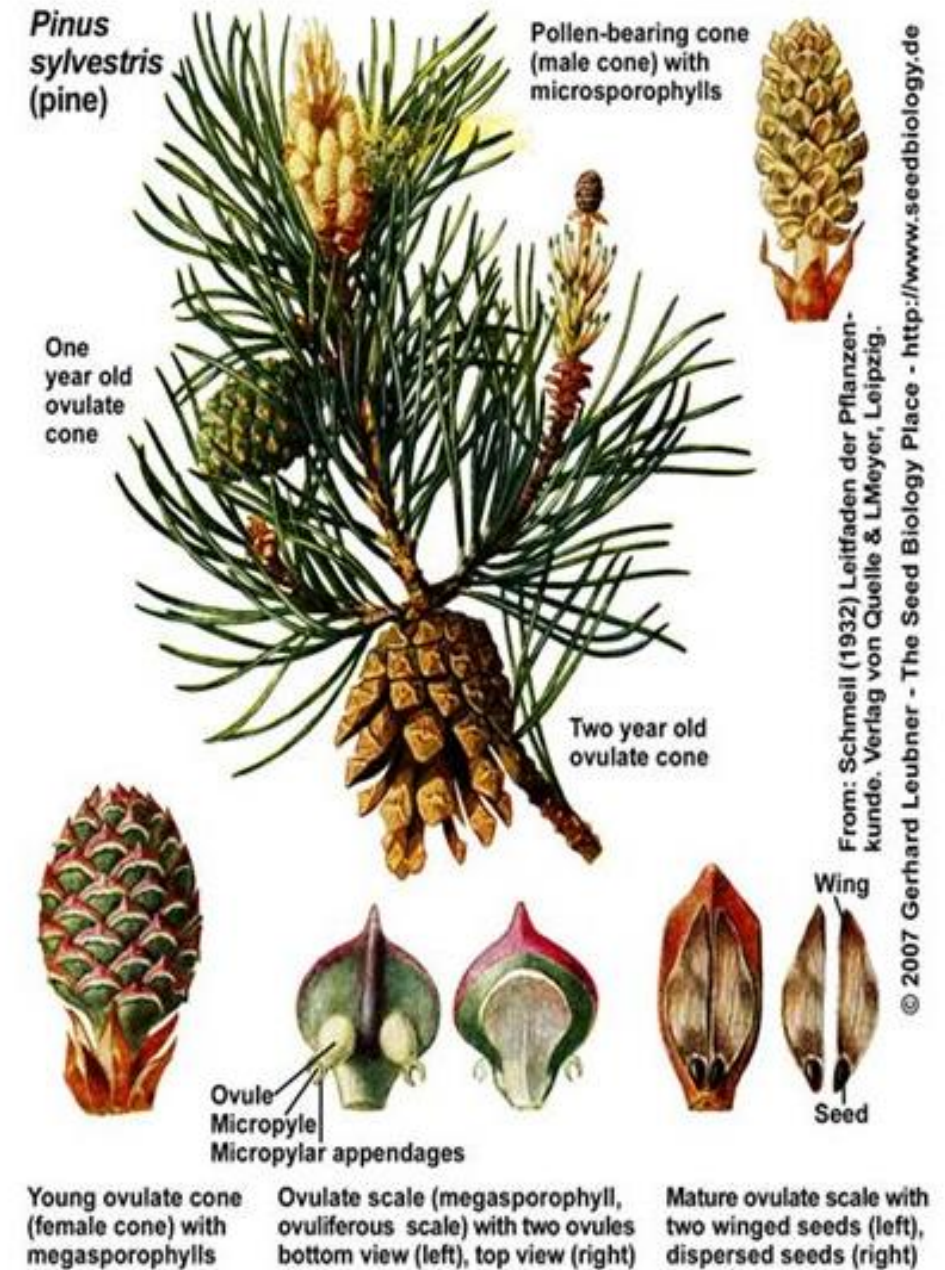
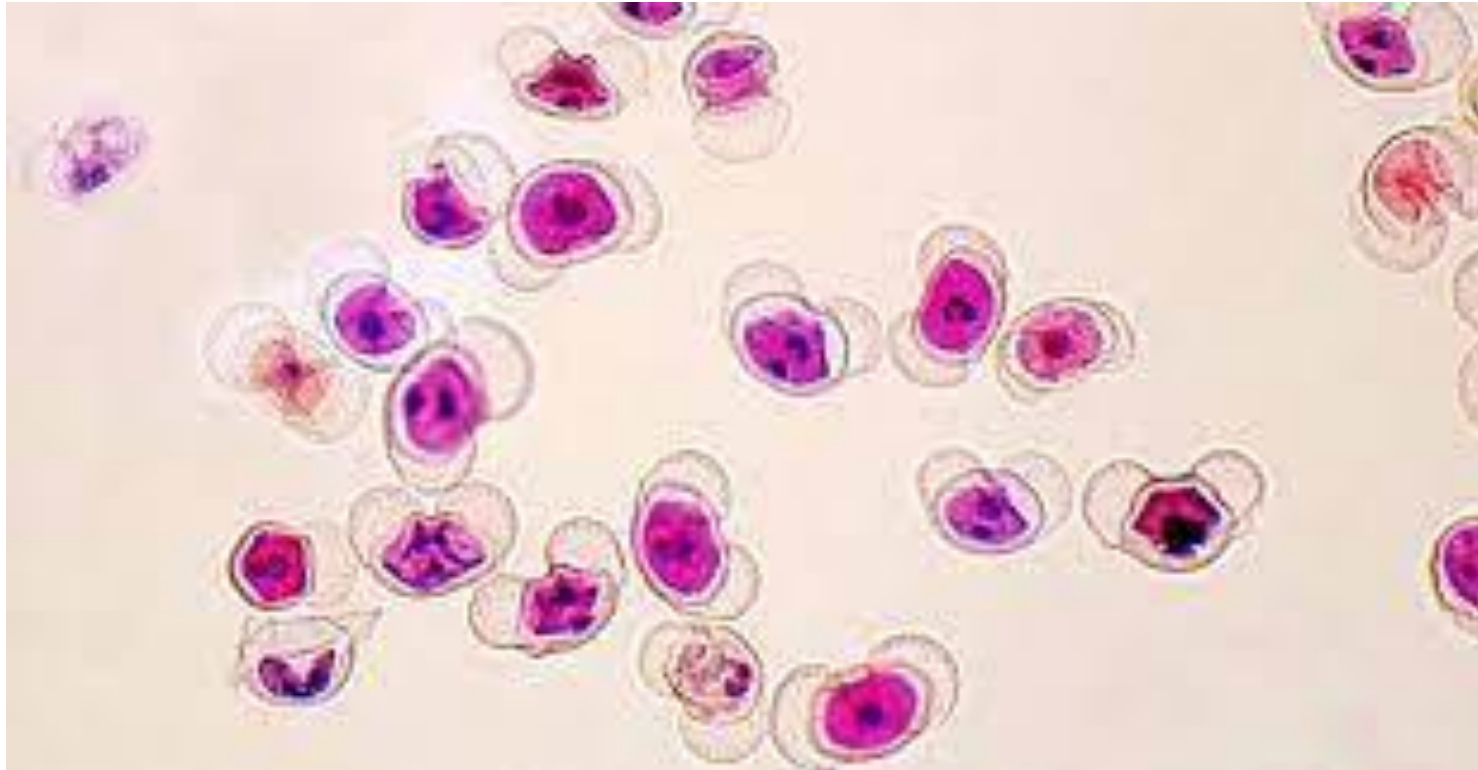
Mature pollen grain

Сараана цэцэг



Slide 2

Pine pollen grain-Hapc



Slide 3

Ambrosia artemisiifolia
Шарилжин навчит амбрози



НЭМЭЛТ ЭХ СУРВАЛЖ:

Science Up with the Singing Zoologist

Dude with a Microscope: Pollen

https://www.youtube.com/watch?v=V6abilB-SYM&list=RDCMUCEOgpZknvTikX8urBJMISig&start_radio=1&rv=V6abilB-SYM&t=197

Thank you for your attention.