STATION #1:

Examine the slides made from the reproductive structures of two different organisms.

Sample A Thursday/Friday: Pine Pollen Cone l.s.

Sample B

Thursday: *Selaginella* – stro l.s. Friday am/pm: *Lycopodium* – stro l.s.

Sample B

Thursday: *Selaginella* – stro 1.s. Friday am/pm: *Equisetum* – stro 1.s.

STATION #1

2 Compound

STATION #2:

Three of the plant clades we have studied are represented here. Observe the plants, then answer the questions.

MATERIALS:

	Thursday	Friday am	Friday pm
2A	Psilotum	Psilotum	Psilotum
2B	Flowers with obvious stamens and pistils - Oregon grape	Flowers with obvious stamens and pistils - Oregon grape	Flowers with obvious stamens and pistils - Oregon grape
2 C	Seed cone of conifer	Pollen cone of conifer	Pollen cone of conifer

STATION #2

1 Dissecting probes/forceps dish for scope

STATION #3:

Examine the three plants at this station. If you wish you can examine portions of them with the dissecting scope.

MATERIALS: **Thursday:** Slide A = Pine Seed/Embryo Slide B = Corn Seed l.s.

SLIDES A AND B ON WHITE CARD ON DISSECTION SCOPES

Friday: Slide A = Monocot Flower Bud x.s. Slide B = Pine Seed Cone Sample C = Pear

SLIDES B ON WHITE CARD ON DISSECTION SCOPE

STATION #3

2 Dissecting

[FRIDAY: 1 Compound, 1 Dissecting]

STATION #3 (Thursday): Look at SLIDES "A" and "B". SLIDE A:

Examine the slide and do as instructed.

SLIDE B:

Examine the slide



STATION #3 (Friday): Look at SLIDES "A" and "B"

SLIDE A:



Note: 5 refers to the structure coloured yellow in the figure

SLIDE B: This section was made of a reproductive structure prior to pollination.

Use the following list of terms to label the diagram of **Slide B** on your worksheet. Incorrect labels will be penalized.

LIST OF TERMS TO LABEL DIAGRAMS WITH:

- archegoniummibractmiendospermnufruitovafruitovaintegumentovamegasporangiumpolmegasporophyllroomicropylesee
- microsporangium microsporophyll nucellus ovary wall ovule ovuliferous scale pollen root apical meristem seed coat

STATION #4

PART A

Longitudinal section through the flower of Plant A:



Examine the preparation of Plant B. Answer PART B the questions.

MATERIALS:	PART A	Thursday Ribes flowers
		Friday am: Ribes flowers
		Friday pm: Peiris
	PART B	Thursday: Cantaloup
		Friday am: <i>Pteridium</i> rhizome x.s.
		Friday pm: <i>Pteridium</i> rhizome x.s.
STATION #4		

1 Dissecting - Tray with probes and forceps Friday pm: add compound

STATION #4

PART A Longitudinal section through the flower of Plant A:



PART B Examine the preparation of Plant B. Answer the questions.

STATION #5:

Examine Plants A, B, and C. There are two microscope slides at the station which may or may not have been made from one of the plants.

MATERIALS:

	Thursday	Friday am	Friday pm
5A	Fern	Fern	Selaginella
5B	Equisetum	Equisetum	Equisetum
5 C	Lycopodium	Lycopodium	Lycopodium
5 - 1	<i>Pteridium</i> - rhiz. x.s.	<i>Equisetum</i> - stem x.s.	<i>Selaginella</i> – stro. l.s.
5 - 2	<i>Lycopodium</i> - stem. x.s.	<i>Lycopodium</i> - stem. x.s.	<i>Lycopodium</i> – stro. l.s.

STATION #5

2 Compounds

ON BOARD

Map

Taxa:

Lycopodiaceae Selaginellaceae Equisetaceae Psilotaceae Ophioglossaceae Leptosporangiate ferns Coniferophytes Angiosperms