Thursday 25th November
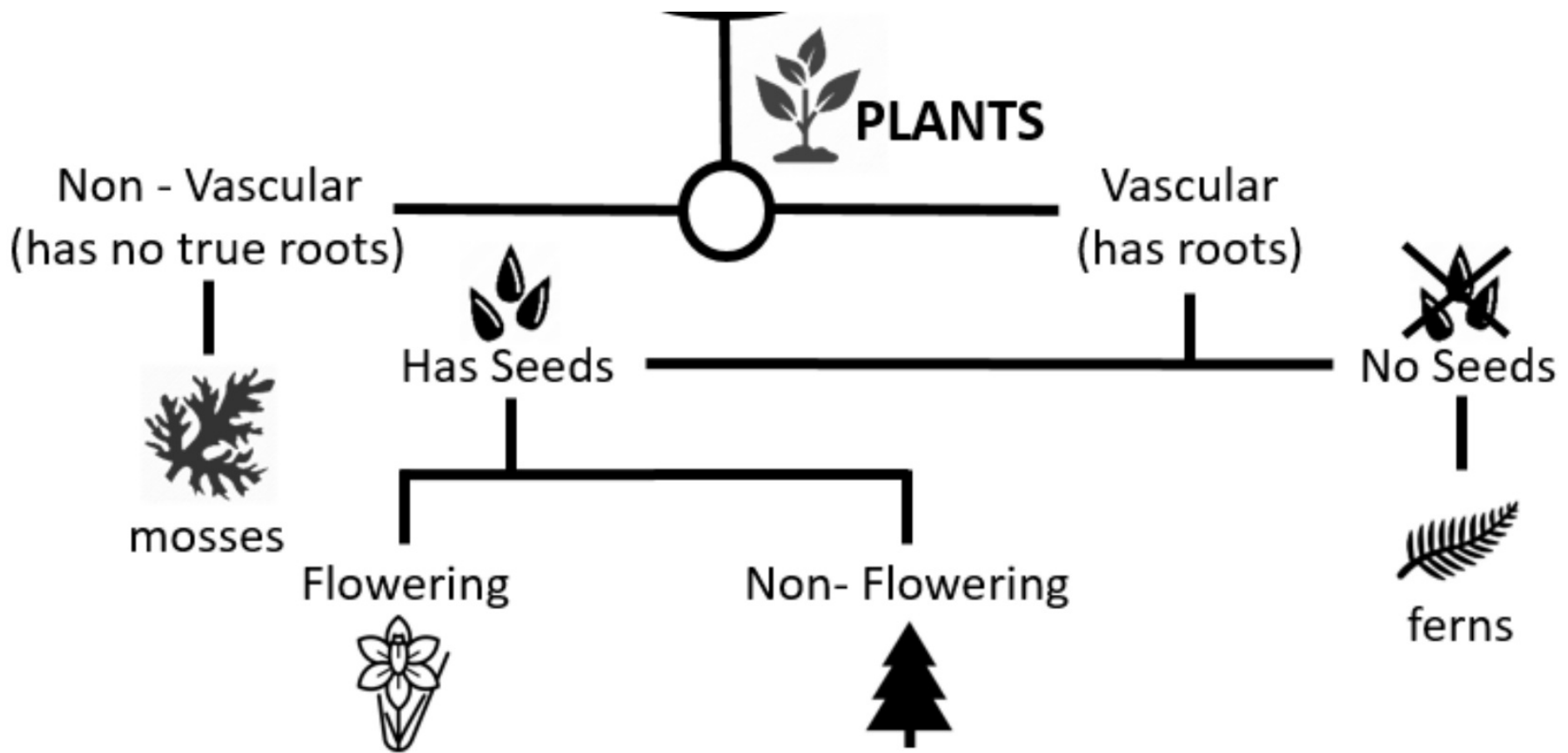## Classifying and grouping plants

Watch this video and discuss what you have learnt.

https://www.bbc.co.uk/teach/class-clips-video/science-ks1-ks2-ivys-plant-workshop-classifying-and-grouping-plants/zh9jvk7

PLANTS

Non - Vascular
(has no true roots)

Vascular
(has roots)

Has Seeds

No Seeds

mosses

Flowering

Non- Flowering

ferns

Mosses

Characteristics:

Live in damp places

Thin leaves that lose water easily

No proper roots or stems

Make tiny spores instead of seeds, these spores are carried by the wind

Ferns

Characteristics:

Have strong stems, roots and leaves.

Leaves have a waxy (cuticle) layer to reduce water loss.

Have tubes called **xylem** inside the plant to transport water and give the plant support.

Release spores from the underside of the leaves.

Conifers

Characteristics:

Many are evergreen, keeping their leaves throughout the year.

Leaves are needle shaped to reduce water loss.

They contain **xylem** for transporting water and giving support.

They do not have flowers, instead they make male and female **cones**.

Grasses

Characteristics:

Hollow stems with swollen joints called nodes.

Stems rarely branch above the ground

Leaves grow from the stems, the lower part of the leaf will protect young shoots.

Leaves are long and narrow with parallel sides.

Flowering Plants

Characteristics:

Have flowers containing the reproductive organs.

Pollen (male sex cell) is carried from one plant to another by the wind or insects

Flowers make seeds after **fertilisation,** these grow into new plants.

Flowering plants are very good at colonising the land. They can live in dry and hot places where there is little water

Characteristics of Plants

Using the information, can you organise these plants into their correct groups?

Write below each image which group you believe it belongs to using the definitions on the previous slides.

Does the plant belong to Mosses? Ferns? Conifers? Grasses? or Flowering Plants?

Picture A: _____

Picture B: _____

Picture C: _____

Picture D: _____

Picture E: _____

Picture F: _____

Picture G: _____

Picture H: _____

Picture I: _____