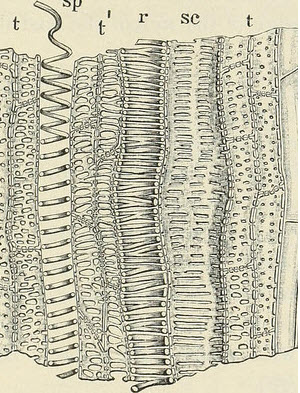
**Transpiration**

**What does a xylem cell look like?**

**How dos it prevent itself from being crushed?**

**Drawing the structure of primary xylem vessels**

There are many different appearances of xylem vessels but they all have the same key features. Cell walls thickened with rings or spirals of a chemical called lignin, holes of varying shapes in the cell walls and no cytoplasm (they are dead cells).

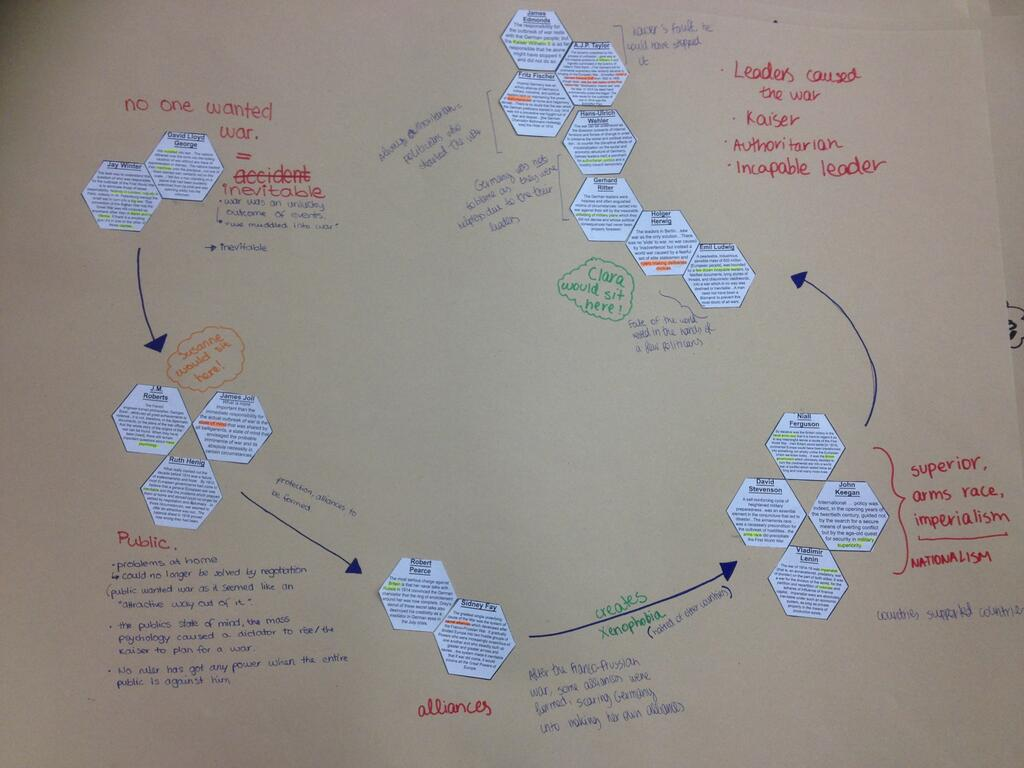
Using the images above and [this video](http://www.youtube.com/watch?v=Tg-9l-mMIkc) to draw a diagram to represent the structure of a primary xylem vessel:

Using the Hexagon cards, make sense of the key concepts in transpiration.

Cut out the hexagons and do the following:

* Arrange then in groups of similar cards
* Annotate each one to make sense of its meaning
* Link them to each other and use these linked cards to create your own explanations of how water flows in the transpiration stream.

**Share ideas and record explanations**



Explain your diagrams to a partner by telling the key point they chose about the nature of science.

Options include:

* Stick the hexagons on paper and write notes around them.
* Video each other as they give the explanation.
* Take photographs and build a PowerPoint presentation / or worksheet.