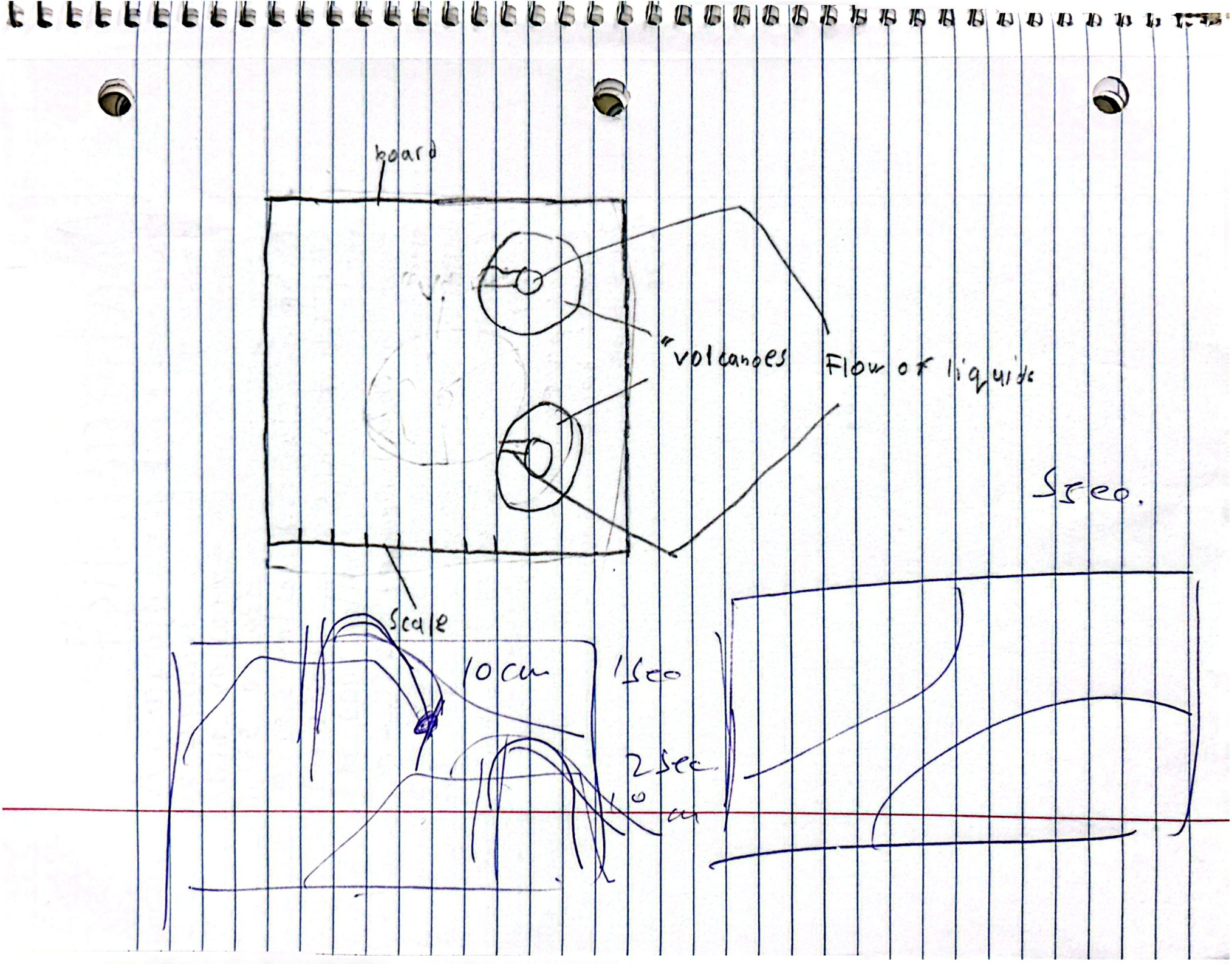
CYSF Logbook

- High viscosity lava is around 600°c - 950°c
- low viscosity lava is around 1000°c-1200°c
- Shield volcanos have hotter lava than cone volcanoes
- This is because cone volcanoes are formed when lava clumps around the vent unlike shield volcanoes which have lava that flows further
- Pas means pascal seconds
- Cold lava viscosity is 10^3 pas - 10^8 pas
- Hot lava viscosity is 10^1 pas - 10^3 pas
- The ring of fire is a group of volcanoes that together form a ring like shape in the pacific ocean
- The ring of fire is comprised of both under water volcanoes and land volcanoes
- Some of these volcanoes form a significant threat to some communities
- some areas that are exposed to volcanoes are Japan and places close to plate boundries
- Islands can be formed from a volcano such as Hawaii and stromboli
- Shield volcanoes are named that because they look like a warriors sheild lying on the ground
- Shield volcanoes have calm eruptions
- Shield volcanoes are wide and gently sloping
- Composite volcanoes have a tall, steep cone shape
- Composite volcanoes have layers made up of ash, lava and rock

- A composite volcanoes eruption can be explosive
- Cone volcanoes have a steep cone made of ash and cinders
- A cone volcano often has explosive eruptions
- The cone volcano has a colder lava than a sheild volcano's
- Note so far: Sheild volcanoes spread further than cones of composites and it's lava is hotter soit means that hotter it is the less steeper it is

Materials list

- Board
- Water
- Honey
- Stretch Tube
- Modelling Clay
- Container
- Plasticine
- Scale
- Paint (Green and Orange)
- Brush
- Paper
- Scissors
- Cutter
- Mews paper
- Plastic bowl
- Duct tape
- Lego



Observations

	Honey	Water	Heated Honey
Ammount	100ml	100ml	100ml
Distance	30 cm	30 cm	30 cm
Time	10 sec	1 sec	8 sec
cm/s	3 cm/s	30 cm/s	3.75 cm/s