

## F.2 Geography

### Topic: The Trouble with Water – The Water Cycle (Worksheet 1)

#### How does a water cycle operate?

#### Task 1

(i) Match column A (processes of the water cycle) with column B (explanations)

Column A (Process)		Column B (Explanation)
1. Evaporation		a. Water on the ground seeps into the soil
2. Transpiration		b. Water vapour cools and changes to water droplets that form clouds
3. Condensation		c. Water in rivers, lakes, seas and oceans turns into water vapour
4. Precipitation		d. Water vapour goes from plants into the air
5. Surface runoff		e. Water droplets in the clouds become too heavy and fall to the ground
6. Infiltration		f. The flow of water on land surfaces and in rivers

(ii) Label processes 1-7 in the figure on P.2.

#### Task 2

Match column A (causes) with column B (effects) to show the operation of the water cycle

Column A (Cause)		Column B (Effect)
the heat of the Sun		they fall to the ground as rain or snow
water vapour rises		water in rivers, lakes, seas and oceans turns into water vapour
the precipitation falls to the ground <i>This is not really correct but I may leave it for the time being. Precipitation is the matter that falls to the ground so precipitation itself doesn't fall, ie it s called precipitation because it falls. Have a look at my text on the water cycle in your course book and see how I use the term.</i>		evaporation starts and the water cycle begins again
the heat of the Sun		it cools and changes to water droplets that form clouds
the water droplets in the clouds become heavier		water vapour goes from plants into the air
water seeps into the soil		the flow of water on <b>and into</b> land surfaces and in rivers <i>I imagine this is the water seeping into the soil so flowing on</i>

		and into land surfaces (you must have “into” otherwise it is not seeping and it’d be run-off) but now you have “flow ... in rivers” as well and that is not about “seeping”.
Water finally finds its way into seas and oceans		Groundwater is collected and seeps into rivers <b>and later the seas and oceans</b>

On the next page, you remind them that causal pro/conj can be used both in the middle and beginning of sentences BUT your examples above have everything in the middle. The students will need practice in placing the conjunctions etc at the start.

**Task 3**

(i) Use the following causal conjunctions/causal processes to link up the causes and effects so as to show the operation of the water cycle.

because, since, so,

results in, leads to, causes,

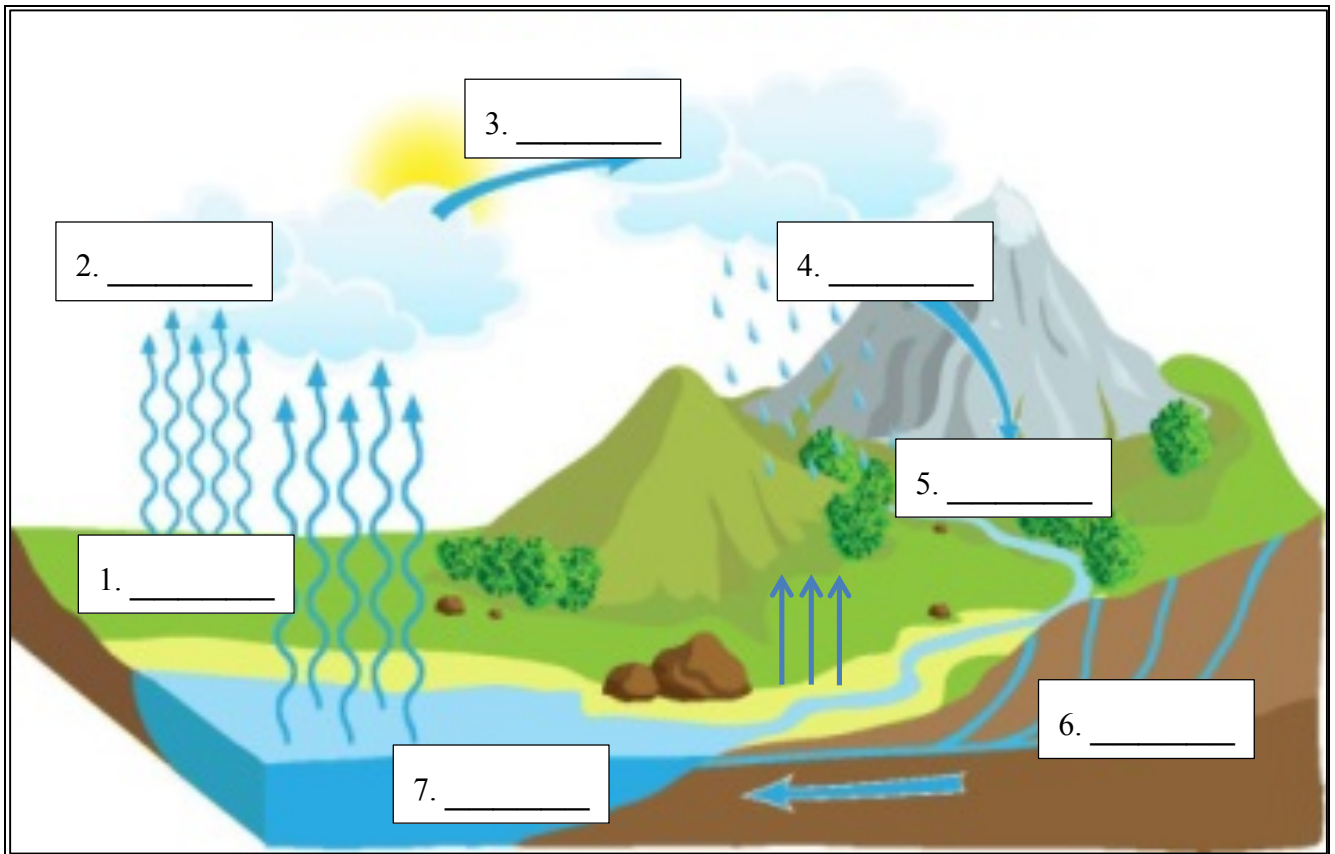
Therefore, ... As a result, ..

Group the resources so the students are clear how they are used.

“Because” etc join clauses and only because and since can come at the front.

“results in” etc should be with an ‘s’ because it’ll mainly or only be singular forms that they join in this cycle.

“Therefore,” etc should have a comma after because they join sentences (not clauses to make a sentence) and we use a comma to indicate that when we write – in speech, we change intonation).



**The operation of water cycle**

