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UNIT 12 THE WATER CYCLE

SCHEME OF WORK

Suggested time frame: 8 periods (1 period is approximately 40 minutes.)

	No. of Periods			Vocabulary	Resource(s) and Material(s)
1	4	Describe the water cycle. Create a gine or work about the water cycle in a diagram based on information from various sources. Analyse the water cycle and its impact on events on Earth as well as the survival of laving things. Analyse the water cycle and its impact on events on Earth as well as the survival of laving things. Analyse the water cycle are considered to the cycle and the cycle and the cycle. Understand that the Sun is the main source of energy for the water cycle.	Analysing Comparing Interring Observing	Condense Evaporate Fresh water Landelide Water cycle Water vapour	Textbook, pp. 163-167 Activity Book, pp. 113-118 Internet Sealable plastic bag, ruler, different coloured markers, water, blue food colouring, sticky tape Beaker, not water, Petri dish, ice cubes Potted plant, water, two transparent plastic bags, two pieces of string
2	4	State how human activities affect the water cycle.	Analysing Communicating Inferring Observing	Deforestation Drought Flood Global warming	Testbook, pp. 168-174 Advity (Book, pp. 116-135 Internet Baiwing tray, dry sandy soil, large tray, thick book, watering can, sangue tray, thick book, watering can, sangue perionise, did yearder, measuring, paper, and survived charcosi, gravel, sand, coston balls, costee litter Emply disconable pleases to softee (EL) charcosi, water, scissors, perionise, disposable plasts spoons Optional plast and plast spoons Disconal

Note: This unit is supported by PowerPoint Slides and an online Question Bank, which can be found at: www.MCEduHub.com



What Is the Water Cycle?

What Is the Impact of the Water Cycle on the Earth and Living Things?

Lesson 1

Duration of lesson: 4 periods

Learning objectives

- Describe the water cycle.
 - Create a piece of work about the water cycle in a diagram based on information from various sources.
- Analyse the water cycle and its impact on events on Earth as well as the survival of living things.
 Explain the parts played by evaporation and condensation in the water cycle.
- Understand that the Sun is the main source of energy for the water cycle.

Process skills

Analysing, communicating, comparing, inferring, observing

Vocabulary

Condense, evaporate, fresh water, landslide, water cycle, water vapour

		Resource(s) and Material(s)
Engage (10 min)	(Phones adils Observing analysing communicating) Get pupils to do all * Entitions, I plan dash from the following question: Have you over wondered why water on the Earth does not under the property of the	Textbook, p. 163 Internet Internet
Explore (30 min)	(Phocus allit). Cheeving, analysing, ethering, communicating) of Gep pupils to load it Blathacks of Temboro is, 194 and recall that water changes its state when it gains or loase heat. Get pupils to complete Chemist Genome on Activity Book. 1 Tell pupils to complete question 2 only after observing changes in the established plastic bag. An pupils the following questions: 4 the pupils the following questions: 5 the condition and condemsation of water happen in the condition of the condemsation of water happen in the condition of the condemsation of water happen in the condition of the condemsation of water happen in the condition of the condemsation of water happen in the condition of the condemsation of water happen in the condition of the	Textbook, Flashback, p. 164 Activity Book, Creativ Science, p. 117 Sealable plasts bag, ruder, different coloured markers, water, blue food colouring, sticky tape

		Resource(s) and Material(s)
Explain (40 min)	(Phones salits Analysing, inferring, communicating) — Guide pupils to understand the process of water cycle using Testbook pp. 164–165. Get pupils to use language Cornect on Testbook p. 165 to write three to the confinctors to describe how you would feel as a dop of valide group (through the water cycle. Go brough Testbook pp. 166–167 to explain to pupils the Get pupils to use Explain or Testbook p. 164 to find out when with the constraints the life processes and daily activities that regular water. Get pupils to use Research on Testbook p. 164 to find out when water test excelled on Earth.	Textbook, pp. 164–167, Research, p. 164, Explore, p. 166
Elaborate (40 min)	(Placese skills: Chlarening, comparing, inferring) Natice Propries traps 1–3 of Activity 2, on Activity Book p. 115 one hour before the lesson. Get public to complete Activity 1 on Activity Book pp. 113–114. Get public to complete Activity 2 on Activity Book pp. 115–116.	Activity Book, Activity 1, pp. 113–114 and Activity 2, pp. 115–116 Bealer, hot water, Petri dish, ice cubes Potted plant, water, two transparent plastic bags, two pieces of string
Evaluate (40 min)	(Proces salls: Observing, analysing, inferring) - Draw the fault count, clouds and the Sun on the whiteboard. - Get pupils to fill in the charges in the state of matter that occur in the water cycle of the pupils to explain frow each charge in state happens. - Get pupils to explain frow each charge in state happens Ask pupils with water cycle is important Get them to left and explain the impact of the water cycle on the cycle of the c	Textbook, p. 167 Activity Book, Activity 3, p. 118 Textbook, Activity 3, p. 118



12.3 How Do Human Activities Affect the Water Cycle?

Lesson 2

Duration of lesson: 4 periods

Learning objective

· State how human activities affect the water cycle.

Process skills

· Analysing, communicating, inferring, observing

Vocabulary

· Deforestation, drought, flood, global warming

	Lesson	Resource(s) and Material(s)
Engage (10 min)	(Phonose salist, Communicating, analysing) Notice Prepare self- under Procedure and Observations of Activity 4 on Activity Blook, p. 119 before the lesson. Get pupils to easils her for following years of the process	Internet
Explore (20 min)	(Phocoss allife, Colsening, communicating) - Get pupils to send the processes in the water cycle. - Add them why some places experience floods, while some - Add them why some places experience floods, while some - Get pupils to finish addur the human activities that affect the water cycle. - Guide pupils for realizes that water cycle is affected by changes - Guide pupils for realizes that water cycle is affected by changes and carbon disorder in the soft in the water of water vapour - and carbon disorder in the soft in the water cycle is - Get pupils to complies Activity or Activity Book, In 1)	Activity Book, Activity 4, p. 119 Baking tray, dry sandy soil, large tray, thick book, watering can, water
Explain (10 min)	(Proces allife: Checkins; communicating, informing) All papills to him about the human bearines mad can affect the amount of water vapour and carbon dioxide in the air. Guide pupils to mailse that deforestant and burning of fossil tolds are examples of such activities. Go through Technologh, 168–1700 o explain how floods and dioxysts are results of changes in weather patients caused by global warming. Get pupils to realise that differentiation and burning of lossil with missing the distribution and burning of lossil with chiefs.	Textbook, pp. 168-170, We Care and Quick Check, p. 170

		Resource(s) and Material(s)
	Georgia pupils to answer the question in the speech habitist. Di Allom View and Ining things affected when a finod or a drought lasts too long? Plant and orage will de. There will be last foot of the control of th	
Elaborate (20 min)	(Phonos attill: Cheening, analysing) Notice Prepare the drifty water before lesson. (Refer to the link below) Older pupils to understand that it is important to keep the water before lesson that the less that the less than t	Textbook, Science Today p. 174 Internet Internet Empty disposable plass bottle (2L), perknife, dirly water, measuring cup, spoon, stopmatch, penoli, paper, activated charcoal, gravel, sand, cotton balls, coffee filter
Evaluate (60 min)	(Phonos allis, Analysis), enhancing, inferring. On through What Wheels undern foreshook p. 171 and Science Glossay on Technock p. 173 for recall the concepts and sociations (Single Park 175) for recall the concepts and sociations (Single Park 175) for recall the concepts and sociations (Single Park 175) for repetit to complete Enforce on Technock pp. 172–173. On pagin to complete Enforce on Activity Book pp. 120–135. Get pagins to complete Revision Exercise on Activity Book pp. 120–135.	Textbook, pp. 171–173 Activity Book, Let's Review, 120–122 and Revision Exercise pp. 123–135
Additional Activity	(Phocons attills: Enablasting, informing) Notice Give pupils destinationed to firming a plastic bottle (2A), before the tesson, Get them to ask their persents to help them can the bottle inco parts, 15 cm from the bottlen, such and the bottlen inclose links a second of the control of the bottlen of the collection of the bottler and the bottlen disclose links as execution. A covert the bottlen of the bottlen and or about 15 cm in height and add as layer of pictibies. A dat on the the bottlen and ensures that also disclose 15 cm in height, the place in the best and or about 15 cm in height. A place in the bottlen and control of the collection of the bottlen and pour some water. Side the fact over the top of the bottlen and pour some water. Side the fact over the top of the bottlen in the terranium base. et all pupils to undestand that they will not have to water the plant as a man water cycle will take place in the terranium base. Will condense into water drugines on the plastic bottle, will condense into water drugines on the plastic bottle, will condense into water drugines on the plastic bottle. The water contrains to the coll where the plant can take it in through the rocks again.	 Empty disposable plasts bottle (24), perthrile, plastic spoons, sand, plastic spoons, sand, pebbles, activated chascoal, soil, plant, water