



Master Lesson Plan

For

Drop by Drop

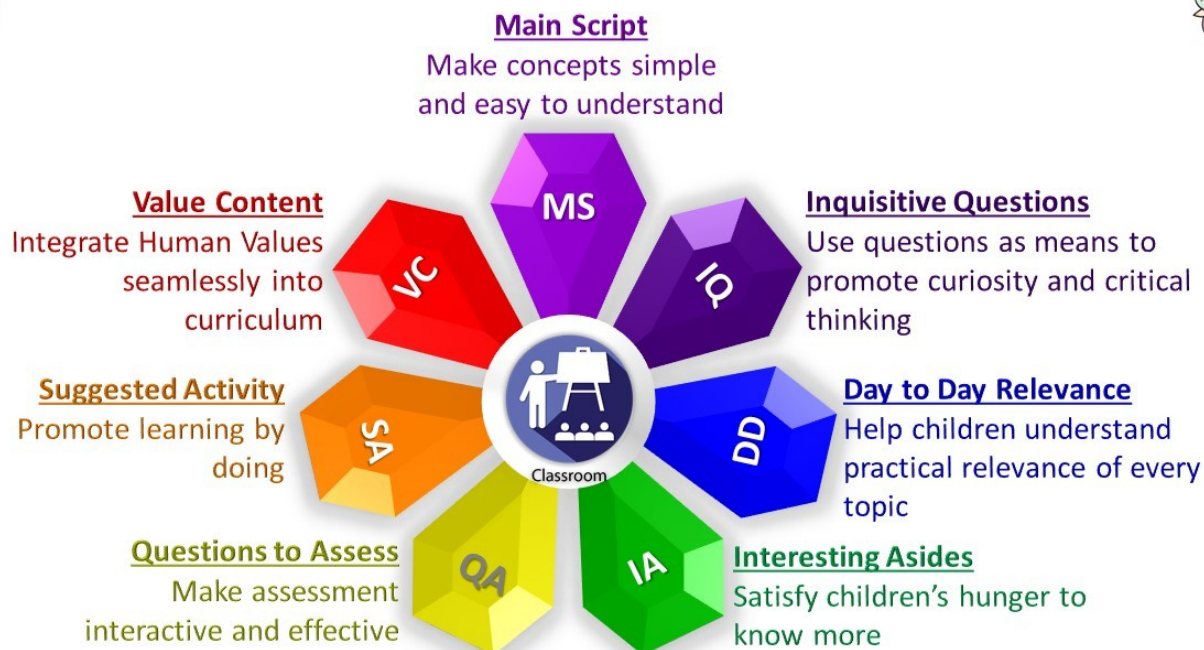
Board	Standard	Subject	Chapter	Language	Reference Link	Creation date
CBSE	STD III	EVS	Drop by Drop	English	Drop by Drop	2021-01-30 17:28:05

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Master Lesson Plan (MLP) - Covers the entire chapter with the help of these 7 asset types



For more information on how to use the lesson plan effectively, please scroll to the guidelines at the end of this document.

Drop by Drop

1. MS_Objectives_Drop by Drop

Notes to the teacher: This asset lays down the proposed plan for transacting this chapter” Drop by Drop”

It states the asset objectives of the MLP.

This asset is for teacher's reference and need not be taught to the students. The students will be able to

- give reasons for using and saving water.
- explain why water is the most precious natural resource we have.
- learn to the reuse of water wherever possible.
- appreciate the step wells built for water conservation.
- enjoy making a craft activity to say Save Every Drop.
- develop the habit of conserving water.
- recall the importance of saving water.

Time to teach	Asset Type	Theme	SubTheme
2 Minutes	Main Script	Water	Importance of Water, Importance of Water

2. IQ_Using and saving water.

Notes to the teachers: Teachers may encourage the students to think and come out with as many answers as possible before giving out the right answer/answers.

Teachers may also summarize the different answers given by the students and explain the answer further.

1. Can you think of a few activities that can be done without water?



Suggested Answer: Studying, playing, singing, dancing, sleeping, etc.

2. Many places receive very heavy rainfall during rainy seasons. But still, the people of these places face water scarcity during summers. Give reasons.

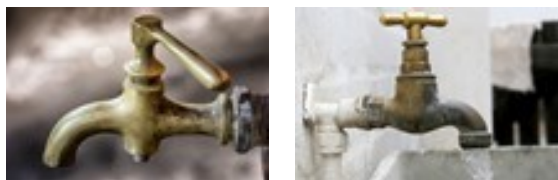


Suggested answer:

The people may not be collecting or harvesting the rainwater in tanks for later use.

Rainwater is wasted as it flows into drains or gutters.

3. Water is important and is one of the basic necessities. Not only in houses, but water gets wasted in schools also. Where do you think is water wasted in schools and how can we avoid the wastage of water in the schools?



Suggested answer:

In schools, children may forget to close the taps properly. Children must take care to close the taps properly.



Sometimes the taps and flush in the toilets or sinks may leak leading to wastage of water. These must be repaired at the earliest.



Instead of throwing the left-over water from the water bottle into the sink, this water can be collected and used for cleaning.

Image Source:

4. Studying: <https://pixy.org/1696574/>
5. Playing: <https://pixy.org/4496317/>
6. Singing: <https://pixabay.com/illustrations/singing-children-song-sing-child-18382/>
7. Dancing: <https://pixabay.com/illustrations/girl-kid-dancing-dance-play-5854365/>
8. <https://pixabay.com/photos/tree-uprooted-storm-rain-earth-3309057/>
9. Water Faucet: <https://pixabay.com/photos/connection-connector-drop-faucet-1239367/>
10. Tap: <https://pixabay.com/photos/tap-isolated-brass-barrel-old-2800308/>
11. Plumber: <https://pxhere.com/es/photo/1588859>
12. Water bottle: <https://pixabay.com/vectors/bottle-water-cork-glass-brown-306487/>
13. Mopping: <https://pixabay.com/vectors/mop-bucket-mopping-wipe-swipe-30035/>

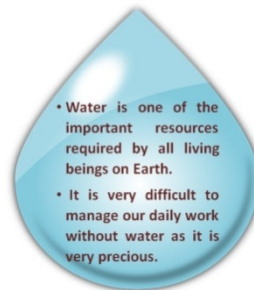
Time to teach	Asset Type	Theme	SubTheme
3 Minutes	Inquisitive Questions	Water	

3. MS_Precious Resource

The teacher may begin the class by asking the children a few questions.

- What are the uses of water?
- Where do you get water from or do you know the sources of water?
- Can you imagine a day without water?

Water a precious resource



A few villages in Rajasthan have a hot and dry climate. The villages are covered with sand all over. The village people are dependent on the nearby ponds for water. But if it does not rain, the ponds dry up. The people of these villages have to walk long distances to fetch water for the family. Sometimes, a train comes once in a while to their place carrying water which is taken home in camel carts.



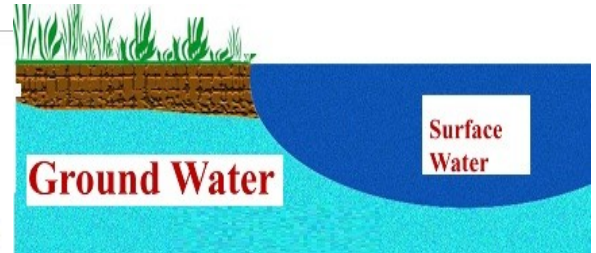
Some houses of the village save rainwater in tanks or tankas. The tank is a pit that is dug in the courtyard of the house. The water from the roof of the house is made to flow to the tanks through a pipe. The mouth of the pipe opening into the tank is covered with a mesh or sieve to avoid dirt from flowing into the tank. The tank is kept covered and the water in the tank is used whenever required. Other than collecting rainwater in the tanks, water can be collected in big drums and buckets and can be used for a few days.



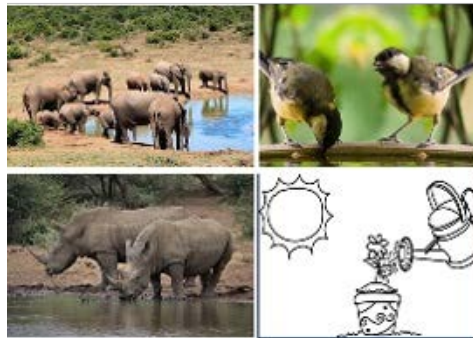
People in a few places are dependent on the water supply through taps. The supply is for a very short time and only once a day. The family members have to share the little water that they get. People do not allow even a drop of water to get wasted.



A few major reasons for the scarcity of water in many places are overuse and wastage of water, climate change, pollution of water, etc.



Not only human beings, plants, and animals also require water for survival.



As water is one of the necessities, we need to save or conserve water for all our essential requirements.



A few ways in which we can save every drop of water are:

1. We should plant and grow more trees to increase rainfall.
2. We must not keep the tap running while brushing teeth, washing clothes, washing vegetables or fruits, utensils, etc.
3. We must remember to close the tap when not in use.
4. We must fill only the required quantity of water we need to drink in a glass.
5. We must use a bucket and mug for bathing instead of using the shower. This saves a lot of water.



6. The plants should be watered in the morning as the temperature is cooler and plant would require less water.
7. Regularly check taps and pipes for leakage. If the leakage cannot be fixed, we must keep a bucket underneath the tap and collect the dripping water as every drop counts.



8. Instead of washing our vehicles using a pipe, we can use a bucket and mug or take the car to the car wash center where recycled water is used for washing.
9. We can try to collect rainwater in tanks, buckets, and drums and use it for different purposes such as washing clothes, cleaning houses, and watering plants.



10. We may build simple rainwater storage or install a rainwater harvesting system in the house.

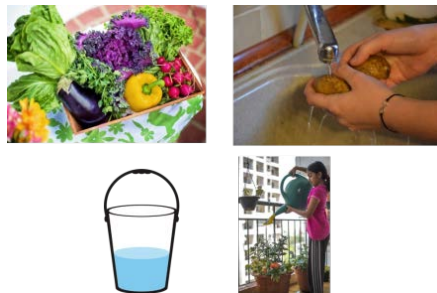
Image Source:

1. <https://pixabay.com/vectors/drop-raindrop-water-tear-teardrop-159527/>
2. <https://pixabay.com/vectors/desert-india-poor-women-water-4319748/>
3. <https://pixabay.com/photos/camel-desert-horizon-india-1845780/>
4. <https://pixabay.com/photos/running-tap-water-wastage-5887452/>
5. <https://pixabay.com/illustrations/umbrella-weather-protection-sun-4884400/>
6. <https://pixabay.com/photos/elephant-african-bush-elephant-241624/>
7. <https://pixabay.com/photos/white-rhino-giants-couple-drinking-4555707/>
8. <https://pixabay.com/photos/animals-bird-tit-blue-tit-drink-3563402/>
9. <https://pixabay.com/vectors/shower-water-plants-sun-nature-2830165/>
10. Tank, Drum, Groundwater, Pollution, Conservation of water SSSVV-Gallery
11. Tree planting: <https://pixabay.com/illustrations/man-boys-trees-and-child-1150985/>
12. Plumber: <https://pixabay.com/vectors/human-job-man-pipe-plumber-156741/>

Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Main Script	Water	

3. DD_Reuse of water at home

A few simple rules which can be followed to reuse and spend less water. This can help us in saving water.



1. The water used to wash vegetables, rice, dals, etc. can be collected in a bucket and used to water the plants.
2. Instead of throwing hot water after boiling any food item, we can use it to clean oil vessels or utensils.



3. Water used to boil noodles or steaming vegetables can be used to make soups.



4. Collecting water from the half-filled water bottles or glasses or unused water in a bucket and using it for washing any small items.



5. Melting the unused ice and using the water for cooking, instead of throwing the ice cubes.



6. The water used to rinse the utensils can be used to clean the sinks of the kitchen and bathrooms.



7. The soapy water collected after washing clothes can be used for washing the floors, to clean toilets.
8. While taking a shower, one can stand on a basin or tub so that water gets collected in the basin. This collected water can be used for washing the lawns or paths.
9. Keeping plates underneath a flowerpot to collect the overflowing water. The overflowing water can then be reused to water the plants again.

Image Source:

1. Vegetables: <https://pxhere.com/en/photo/1614636>
2. <https://pixabay.com/photos/washing-vegetables-washing-the-hand-272963/>
3. <https://pixabay.com/vectors/pail-cube-water-hygiene-wash-5502337/>
4. SSSVV Gallery-Garden
5. <https://pixabay.com/photos/if-feast-noodles-marriage-709614/>
6. <https://pixabay.com/photos/corn-cooking-food-to-boil-hot-1686733/>
7. <https://pixabay.com/photos/soup-home-consomm%C3%A9-672388/>
8. <https://pixabay.com/vectors/pail-cube-water-hygiene-wash-5502337/>
9. <https://pixabay.com/photos/tableware-washing-dishes-t-rinse-237797/>
10. <https://pixabay.com/photos/cup-water-cafe-glass-939479/>
11. <https://pxhere.com/en/photo/726577>
12. <https://pixabay.com/photos/washing-dishes-soap-sink-bubbles-1112077/>
13. <https://pixabay.com/illustrations/woman-hanging-clothes-tartan-colors-4364267/>
14. <https://pxhere.com/en/photo/1559391>
15. <https://pixabay.com/illustrations/water-pail-soapy-suds-container-4049189/>

Time to teach	Asset Type	Theme	SubTheme
3 Minutes	Day-to-day Relevance	Water	

5. SA_Water Conservation

Aim: To make students become aware of how each of them can conserve and save water.

Materials Required:

	Ice cream sticks
	Chartpaper, pencil
	Sketch pens
	Glue
	Scissors

Procedure:

- Draw 6 circles on a card sheet and cut them out.
- Write the different ways of saving water on the 6 circles.
- Take a circle and stick it on one end of the ice cream stick.
- Follow the same step and stick all the circles to the ice cream sticks.
- Make a cut out in the shape of a water droplet. Colour it blue and write 'Save Water' on it.
- Stick the other ends of all the ice cream sticks to the back of the water droplet.
- Keep this 'Save Every Drop' craft with you to remind you to save water always.

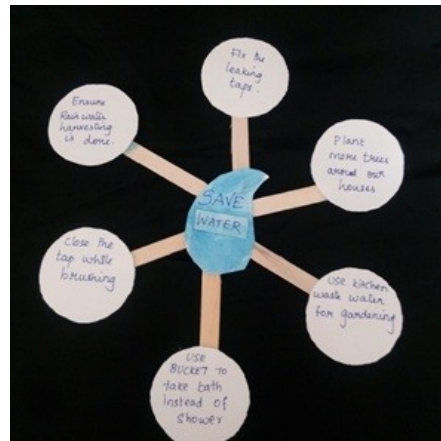
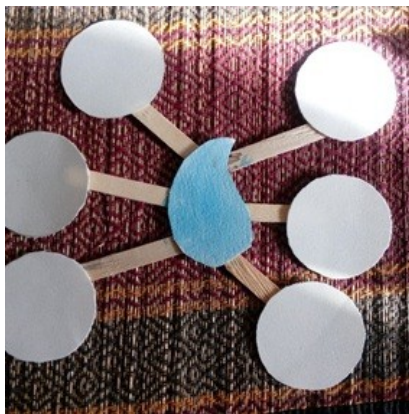


Image Source:

1. https://commons.wikimedia.org/wiki/File:Lolly_sticks.jpg
2. Pencil: <https://pixabay.com/en/pencil-office-design-creative-1209528/>
3. Sketch pens: <https://pixabay.com/en/marker-felt-tip-pens-455701/>
4. Glue: <https://pixabay.com/en/glue-bottle-orange-blue-fluid-306757/>
5. Scissors: <https://pixabay.com/en/scissors-colorful-scissors-color-1803670/>
6. Images – clicked by Ramya Balaji

Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Suggested Activity	Water	

6. IA_Step well for water conservation

People of ancient times also knew the importance of saving water and had adopted many methods to collect and save rainwater wherever and whenever possible for later use.

One of the traditional methods of storing rainwater was building step wells.

- A stepwell is a well or a pond with steps to climb down and reach the water.



- Mostly found in the states of Gujarat, Rajasthan, and Haryana, the name of the stepwell varies with each region.
- It is called baudi, bawdi, bawri, baoli, bavadi, and bavdi in Hindi and in Rajasthan. In Gujarati, it is called Vav or Vaav and Kalyani or Pushkarani in Kannada.
- The step-wells can be found in various shapes such as round, square, rectangular etc., and with amazing architectural work such as carvings on the walls.



- The number of steps, design of the steps entrance for the steps, and the side having the steps or stairs also vary according to the region.
- Along with storing water, the stepwells also served the purpose of social gatherings and religious functions, etc.



There are approximately 2000 step wells in India. A few famous step-wells are:

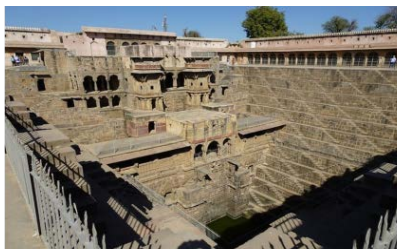
Chand Baori Rajasthan

Agrasen Ki Baoli Delhi

Rani Ki Vav Gujarat

Pushkarani in Karnataka

Baoli Ghaus Ali Shah Haryana



Chand Baori -Rajasthan



Agrasen Ki Baoli- Delhi



Rani Ki Vav Gujarat



Pushkarani in Karnataka

Image Source:

1. <https://pixabay.com/photos/stepwell-chand-baori-ancient-4887522/>
2. <https://pixabay.com/photos/architecture-well-india-new-delhi-5079286/>
3. <https://pixahive.com/photo/rani-ki-vav/> - Attribute to Adesh Dholi
4. <https://pixabay.com/photos/step-well-unesco-heritage-site-hampi-286572/>
5. https://commons.wikimedia.org/wiki/File:Hampi_aug09_243.jpg
6. <https://pxhere.com/en/photo/1603780>
7. <https://pixabay.com/photos/temple-tank-steps-well-tank-ancient-173464/>
8. <https://pixabay.com/photos/step-well-well-nandi-hills-371630/>
9. <https://pxhere.com/en/photo/1603779>

Time to teach	Asset Type	Theme	SubTheme
3 Minutes	Interesting Asides	Water	

7. VC_Conservation of Water

Rajamma and Badramma

During the reign of Emperor Akbar, there lived two ladies in a village. Rajamma was kindhearted, very hard-working, and a simple lady. Badramma was lazy and a spendthrift. Both were maids in the palace.

Every month after receiving their salaries, Badramma used to spend all the money and borrow more money from Rajamma, promising to return it very soon. But she never repaid the money. Rajamma used to keep an account of the amount she had lent Badramma. A few months later, Rajamma fell sick. She decided to move to her sister's village. So, she asked Badramma to return the loan amount as she was moving to another place.

To Rajamma's surprise, Badramma denied taking any money from her. Rajamma sought Birbal's help to get the money back from Badramma. He wanted to know if there was any witness other than the account to prove that Badramma had borrowed money from her. She said nobody witnessed her giving money. Birbal called both to the court after two days.

Badramma was so happy and proud that Birbal invited her to the court. She was surprised to see Rajamma, there outside the court hall.

Birbal asked them to enter the courtroom from a side door. The entrance to the side door was very marshy and muddy. Both the ladies walked on the marsh mud and entered the court.

Birbal pointed them to a corner where two buckets with water and two mugs were kept. He asked them to wash their feet and come inside the room.

Once inside the room, Birbal ordered Badramma to pay back Rajamma's money. Badramma was scared that Birbal would punish her and agreed to return all the money she had borrowed.

Later, when Akbar asked Birbal, "How did he find out that Badramma had borrowed none from Rajamma?" Birbal said to Akbar, "Rajamma was careful, she used very little water to clear the mud from her feet and wiped the mud from her feet using her hands. She used only one mug of water to clean mud and left a lot of water in the bucket. Badramma used all the

water from the bucket but couldn't clean the mud from her feet. The mess she made on the ground showed that she is lazy and doesn't have the habit of saving. Rajamma knowing the value of water, used it drop by drop. She didn't waste water but saved it. People who save water save money. The saved water in the bucket showed me that Rajamma is sincere".

Lesson learned: - Rajamma's saving habit helped her in getting back her money. She conserved water, and water conserved her life savings.

Water is precious, we must not waste it. Life depends on water, and the reservoir depend on us. We must develop the habit of conserving water.

Time to teach	Value Type	Value Sub Type	Value Attribute
3 Minutes	Non-Violence	Ceiling On Desires	Quotation

8. QA_Drop by Drop

I) Fill in the blanks:

- 1) Water used for washing vegetables can be used for _____ the plants in the garden
- 2) We should plant more _____ to receive more rainfall.
- 3) Water becomes scarce in regions which don't receive ____.
- 4) Saving water is also known as _____
- 5) We can store rainwater in _____ dug in the courtyard.
- 6) The roof of the house is made _____ to collect rainwater.

Answer: 1. watering 2. trees 3. rainfall 4. water conservation 5. tanks 6. sloping

II) Answer the following questions:

1. State any three ways of saving water.
2. What will you do when you see water dripping from a tap?
3. What is rainwater harvesting?
4. Why is a sieve attached to the mouth of the pipe for collecting rainwater?
5. State any three ways in which water in the kitchen can be reused?

Answers:

1. a. Fix the leaking taps.
b. Close taps while brushing teeth.
c. Use a bucket and a mug to bathe .
2. Try and close the tap. If there is any leakage, alert the elders and get it fixed.
3. Rainwater harvesting is the method of collecting rainwater from the roof through pipes into a tank or into the ground.
4. The sieve does not allow any dirt to flow into the tank. So, a sieve is attached to the mouth of the pipe for collecting rainwater.

5. Water can be reused in the following ways:

- The water used to wash vegetables, rice, dals, etc. can be collected in a bucket and used to water the plants.
- Instead of throwing hot water after boiling food items, we can use it to clean oily vessels or utensils.
- The water used to rinse the utensils can be used to clean the sinks of the kitchen and bathrooms.

Time to teach	Asset Type	Theme	SubTheme
8 Minutes	Assessments	Water	Precious Resource, Importance of Water Conservation of water, Precious Resource, Importance of Water, Conservation of water

9. MS_Summary_Drop by Drop

In this lesson we discussed the following:

- Scarcity of water during summer
- Collecting rainwater in tanks
- Saving water drop by drop
- Avoiding wastage and reusing water

Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Main Script	Water	

Master Lesson Plan

Seven Asset Methodology for MLP

What is the purpose of this Master lesson Plan?	This Master Lesson Plan (MLP) prepared by Sri Sathya Sai Vidya Vahini (SSSVV), covers the entire chapter for the given board. The MLP for the chapter given in the textbook is broken down into smaller modules known as assets. Any chapter can be taught using the 7 asset types in SSSVV methodology. Several different assets together complete the entire chapter. Depending on the requirement, each asset is supported by teaching aids such as animated presentation, audio, video, and learning aids such as worksheets. The MLP is for the teacher's preparation and the teaching aids are for use in the classroom.
How to use it?	You can prepare for your class with this MLP by following 3 simple steps: 1. Read your textbook; 2. Go through the information given in the assets (document & multimedia); 3. Prepare your teaching notes. Great! Now you are ready to transact the chapter.
Duration	Kindly note the duration given for each asset. Due care has been taken in planning the assets, to ensure the chapter is completed within the time specified by the Board. Note: Preparation time is not included in the asset duration. The teaching time depends on the duration of the teaching aids and is not impacted by the length of the MLP.
What is a 'Main Script' (MS) Asset?	The Main Script asset is there for explaining the main concepts of the chapter clearly. The information given in the textbook is simplified, organised and structured to give more clarity. Additionally, you may find a video or mnemonics or a graphic organiser to deepen the understanding of the concept.
How to teach using the MS asset?	Please use the blackboard, slides and interaction to develop the concept.
What is an 'Inquisitive Questions' (IQ) asset?	The Inquisitive Questions asset uses questions to promote higher order thinking like the n^{th} why, what-if, new perspectives, cause-effect, and others, creating curiosity.
How to teach using the IQ asset?	You may use the questions to connect with the students, encourage exploration to engage them in the learning process. You may allow multiple responses and instead of rejecting any of the responses, ask why, before revealing the suggested answer or hints.
What is a 'Day to day Relevance' (DD) Asset?	The Day to Day Relevance asset helps students understand the practical relevance of every topic, making them eager participants in the classroom. If students connect the concepts to their environment, they would learn meaningfully without dislike or simply memorizing for exams.

How to teach using the DD asset?	You may use the asset by asking questions about their experience and use it to establish why they are learning the topic. If necessary you may substitute with a recent or local example.
What is an 'Interesting Aside' (IA) asset?	The Interesting Aside asset uses attention grabbing titbits or anecdotes to bring joy and satisfy the child's hunger to know more. This is a quick/short asset intended to bring attention back to the main concept being taught.
How to teach using the IA asset?	You may use this asset to give a piece of interesting information relevant to the topic, without prolonged explanation/discussion. You may suggest appropriate books for further reading.
What is a 'Suggested Activity' (SA) Asset?	The Suggested Activity asset provides a detailed step by step procedure for the teacher to conduct a hands-on activity. This promotes Activity Based Learning.
How to teach using the SA asset?	You may use this asset to energise your students to learn by doing simple, fun-filled activities based on the topic. The asset includes - preparation, activity, and follow-up. You may engage the students in the preparation and follow-up stages to develop collaboration and responsibility. You could try it once, yourself, before the actual delivery to be more comfortable with it. Note: The duration mentioned in the asset is usually for the activity part only.
What is a 'Value Content' (VC) Asset?	The Value Content asset integrates Universal Human Values (such as empathy, inclusivity, respect for nature that translates into responsible behaviour) seamlessly into the curriculum, as the "End of education is character".
How to teach using the VC asset?	You may use this asset to engage with the students to bring out their innate values and connect with the intrinsic values in the topic/concept. The asset includes pointers on the specific pedagogical technique followed.
What is a 'Questions to Assess' (QA) asset?	The Questions to Assess asset uses an interactive approach to check learning of different types of learners, and provides feedback to the teacher for appropriate action. The questions cater to all the levels of Bloom's Taxonomy. Questions from 'Apply' level and above enable students to reflect on their learning.
How to teach using the QA asset?	You may go through the slides to understand its flow and know when to click for the answer (slides include suggested answers). While presenting in the class, you may display the question and encourage multiple responses, before revealing the answer. In some cases, this asset may include extra questions/worksheet that can be given as homework.