



Master Lesson Plan

For

Smart Charts

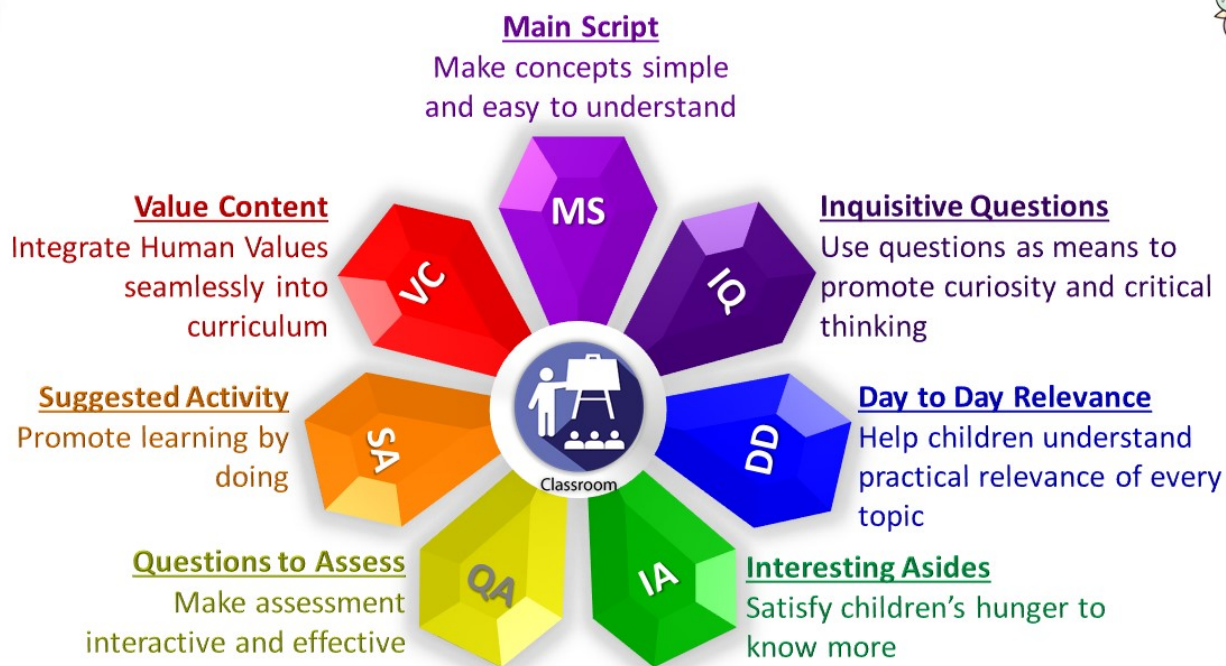
Board	Standard	Subject	Chapter	Language	Reference Link	Creation date
CBSE	STD III	Mathematics	Smart Charts	English	Smart Charts	2021-01-20 21:43:24

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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.

Smart Charts

1. MS_Objectives_Smart Charts

Notes to the teacher: This asset lays down the proposed plan for transacting this chapter.

It states the asset objectives of the MLP.

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

Students will be able to

- 1) Collect data and interpret the data collected.
- 2) Measure and record heights.
- 3) Collect and record the data and present in the form of tables or charts.
- 4) Represent the particulars as bar graphs and pictographs.
- 5) Relate to use smart charts to cleanliness health and hygiene.

Time to teach	Asset Type	Theme	SubTheme
3 Minutes	Main Script	Data Handling	Counting, Counting

2. MS_Data Collection

DATA Collections and Presentation

1) Beads

Color of the beads	Number of beads
Blue	6
Red	2
Brown	5
Purple	3
Violet	2
Dark Brown	3
White band	3

Now to demonstrate how data can be collected and presented in the form of a table. Let us take an example of a colored bead necklace. Then let us count the number of different

beads and record the answers in the below table



Now from the table we can draw the following conclusion:

- 1) Which is the most common colored bead? **Blue**
- 2) Blue beads are more than red beads by **4**
- 3) Total number of beads **24**
- 4) Which colored beads are more than 2 but less than 5 **Purple, Dark brown and white**
- 5) Red and Violet are **2 numbers each**

2) Shoe Sales

In the table shown below, pairs of footwear sold by the salesperson on Sunday are recorded. Use the information from the table to answer the following

Type of Footwear	Number of footwear		
High heels shoe	21		
Sports shoe	6		
Slippers	12		
Boots	3		
Formal shoes	17		

- 1) How many pairs of slippers were sold on Sunday? Answer: **12 pairs**
- 2) Which is the most popular shoe type? Answer : **High heel shoes**
- 3) How many pairs of formal shoes were sold on Sunday? Answer : **17 pairs**
- 4) How many pairs of shoes were sold on Sunday? Answer: **59 pairs**
- 5) Which type of footwear was sold the least? Answer : **Boots**

3) People travelling

In the chart shown below, mode of travelling to another city is shown. Use the information from the chart to answer the following

Way of travel	Car	Bus	Train	Airplane
Number of people	120	300	1200	50



- 1) Most people travel by _____. Answer **Train**
- 2) People who travel by bus is _____ than people who travel by airplane. Answer **more**
- 3) Least number of people travel by _____. Answer **airplane.**
- 4) How many people travel by bus? **Answer 300**

4) Vegetable Seller

A survey of people was carried out by a vegetable seller for the vegetables liked by the people in his colony and the result is tabulated as below.



Vegetables	Number of people who liked the vegetable
Capsicum	4
Turnip	2
Broccoli	5
Brinjal	10
Carrot	6
Radish	3
Potatoes	12
Cauliflower	8

Use the information from the chart to answer the following

- 1) Name the vegetable that is most disliked Answer : **Turnip**
- 2) Name the vegetable that is most liked Answer : **Potato**
- 3) Name the vegetables liked by 5 or more than 5 people Answer : **Broccoli, Brinjal Carrot, Potato and Cauliflower.**

Image links

<https://pixabay.com/illustrations/bracelet-beads-chain-crystal-5003797/>

<https://pixabay.com/vectors/sandals-shoes-footwear-flip-flops-5434665/>

<https://pixabay.com/vectors/shoe-shoes-boot-boots-sneakers-4791312/>

<https://pixabay.com/vectors/bell-pepper-broccoli-1297918/>

<https://pixabay.com/vectors/car-driving-blue-vehicle-303174/>

<https://pixabay.com/vectors/bus-transportation-mass-vehicle-35688/>

<https://pixabay.com/vectors/railroad-railway-traffic-train-159321/>

<https://pixabay.com/vectors/plane-jet-airplane-aircraft-160861/>

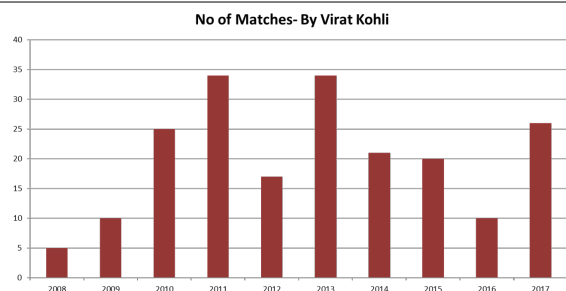
Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Main Script	Data Handling	

3. IQ_Bar Charts

Bar Chart

The teacher should instruct the students to observe the following graph so that they are able to answer the questions that follow:

Number of matches played by Virat Kohli is shown in the below bar chart



1) After looking at the bar chart identify the two years in which Virat Kohli has played more than 30 matches?

Answer : 2011 and 2013

2) In which Year has Virat Kohli played the least number of matches?

Answer : 2008

3) In 2009 how many matches did Virat Kohli play?

Answer : 10

List of the image links in the asset:

Virat Kohli match graph: Source:<http://www.howstat.com/cricket/Statistics/Players/>

Time to teach	Asset Type	Theme	SubTheme
3 Minutes	Inquisitive Questions	Data Handling	

4. VC_Health and Hygiene

Smart charts can be in the form of tables or bar charts or Graphs. Smart charts enable us to understand and interpret the information available easily.

Smart Charts can be used to help ourselves, to improve our own habits and behavior.

Children! when you go to a doctor's clinic you might have seen boards. Can someone tell me what is written on them?

Children may come out with answers like

- Keep your house and surroundings clean.
- Wash your hands before eating.
- Cut your nails regularly.

- Do not eat food sold outside or uncovered food items.
- Eat fresh food with vegetables and fruits.
- Maintain clean toilet habits by washing your hands with soap every time you visit the toilet.
- Brush your teeth twice—on getting up & before going to bed.



Next time you visit a hospital or dispensary find out if there is a smart board and what information it gives.

But Children, remember, it is not enough to keep ourselves tidy & clean. We also have to keep our personal books & other things tidy. Then we don't have to search for them when we need them.

Most importantly, our thoughts also have to be clean. A healthy mind can lead you to a healthy body and much happier life.

List of the image links in the asset:

https://cdn.pixabay.com/photo/2014/04/03/10/45/hands-311366_340.png

<https://pixabay.com/photos/clipper-delijia-manicure-metal-87977/>

<https://images.pexels.com/photos/1253243/pexels-photo-1253243.jpeg?auto=compress&cs=tinysrgb&dpr=1&w=500>

<https://images.pexels.com/photos/1040821/pexels-photo-1040821.jpeg?auto=compress&cs=tinysrgb&dpr=1&w=500>

Time to teach	Value Type	Value Sub Type	Value Attribute
5 Minutes	Right Action	Cleanliness	Group Activities

5. DD_Uses of Tally marks

Uses of Tally marks

The teacher could explain the following applications of tally marks and bar graphs. Tally

charts are used as it is quicker to record data with a dash or straight line than it is to repeatedly write out words or figures. Also, the data can be immediately divided into categories or groups ready to be analysed.

1) Sorting out colored sewing thread in a warehouse-



For example, below is a tally chart through which sorting out of the colored sewing thread in a warehouse is recorded.

COLOUR	TALLY	TOTAL
Red		13
Orange		3
Pink		7
Blue		17
Purple		7
Yellow		17
Green		15
Other		3

The above example demonstrates how tally marks are used to quickly collect/interpret data.

2) In a ready made garment factory:



SIZE	TALLY	TOTAL
XL		23
L		14
M		10
S		27

The above example demonstrates how using tally marks helps us reconcile data quickly. It helps us save a lot of time

Images link

<https://pixabay.com/photos/sewing-thread-couture-colors-362086/>

<https://pixabay.com/illustrations/introduction-business-display-blank-3195427/>

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

6. SA_Students Height

Students' Height

Aim: To measure the height of the classmates and record the same in a table.

Teacher can ask students can use a wall to mark the heights of the students for the below mentioned table.

Resources Required:

Flexible measuring tape or ruler -1 number

Pencil -1

Note book-1



Preparation: Teacher shall arrange for the flexible tape from the school.

Procedure:

1. Find a place where students can stand with their back to the wall.
2. Always measure the height while barefoot
3. Students shall stand with their back against the wall and their feet together. They should stand up as straight as possible with their heels, back, shoulders, and head all touching the wall.
4. Raise the notebook to the top of their head, and press it against the wall.

5. Mark the position above the top of their head on the wall with a pencil. Make sure not to move the notebook.
6. Mark the place on the wall where the bottom of the notebook is resting.
7. Measure from the floor to the pencil mark with a measuring tape. Keep the measuring tape flat against the wall.
8. Note the measurement.
9. Each student's height is measured and two students can enter the data using tally mark.
10. Later on when all students are covered then they can count numbers and draw a bar chart to show how the data looks.

Height	Tally Marks	Numbers
Below 3-feet		
3 feet-4 feet		
Above 4 feet		

Instructions to the teacher: Teacher can explain that exact 3 and 4 feet height can be included for 3-4 feet category

Further students should be able to answer the following questions:-

1) Most of the students belong to which height category?

- Below 3 feet
- 3-4 feet
- Above 4 feet

2) How many students are above 4 feet?

3) How many students are below three feet?

4) How many students are above 4 feet?

Troubleshooting : Not applicable

Conclusion: Students would have learnt to measure using the measuring tape, record their height in feet and inches. They would have also learnt to record this data in a table and draw inference based on questions answered.

List of the image links in the asset:

<https://pixabay.com/vectors/tape-measure-tool-measure-meter-145397/>

Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Suggested Activity	Data Handling	

7. IA_Invention of Tally Marks

Invention of Tally Marks

The teacher could share the following fact about the history of tally marks:

1) Did you know humans learnt counting around 46000 years ago?



2) Did you know that it is mentioned in history books that Tally marks were invented by Cavemen.

It is mentioned in history books that Tally Marks were invented by Cave men!



List of image links

<https://pixabay.com/vectors/hand-counting-fingers-one-two-162127/>

<https://pixabay.com/vectors/caveman-beard-man-primitive-159964/>

Time to teach	Asset Type	Theme	SubTheme
5 Minutes	Interesting Asides	Data Handling	

8. QA_Draw Bar Charts and Pictographs

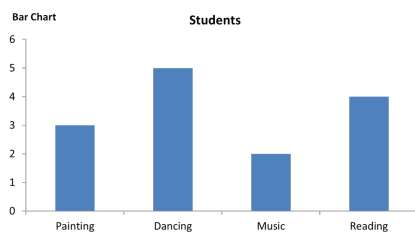
Bar and Pictographs

Q1) Read the table given below about the hobbies of students of class III . Represent the data using bar chart

Hobbies	No of Students
Painting	3
Dancing	5
Music	2
Reading	4

Answer:

Bar chart as per above data



After plotting answer the following questions

1) Which is the most popular hobby?

Dancing

2) Which is the least popular hobby?

Music

3) How many Hobbies are more popular than painting?

Two

Q2) Look at the below picture chart (pictograph) and answer the following



a) Most popular sweet

Mysorepak

b) Least popular sweet

Laddu

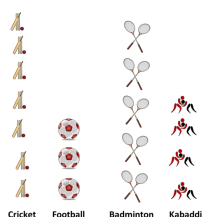
c) How many people like Kheer

Three

Q3) Prepare a picture chart for the following table

Sports	Numbers
Cricket	7
Football	3
Badminton	5
Kabaddi	4

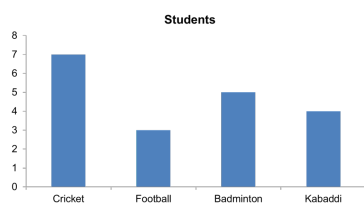
Answer



Q4) Prepare the bar chart for below table and identify the most popular sport.

Sports	Numbers
Cricket	7
Football	3
Badminton	5
Kabaddi	4

Answer



Conclusion : Therefore the most popular sport is Cricket.

Q5) Answer the following based on the above bar chart.

1) Most popular sport

Answer :Cricket

2) Least popular sport

Answer :Football

3) How many students like kabaddi?

Answer : Four

List of the image links in the asset:

Comic Character -<https://pixabay.com/vectors/cartoon-comic-comic-characters-1295891/>

Smiley – <https://pixabay.com/vectors/smiley-emoticon-happy-face-icon-1635449>

Cricket wicket – <https://pixabay.com/vectors/cricket-cricket-bat-bat-ball-155965/>

Football – <https://pixabay.com/vectors/alphabet-word-images-ball-cristian-1295331/>

Badminton bat – <https://pixabay.com/illustrations/badminton-bat-sports-badminton-game-5424103/>

Kabaddi– <https://pixabay.com/vectors/wrestling-sport-fight-competition-311456/>

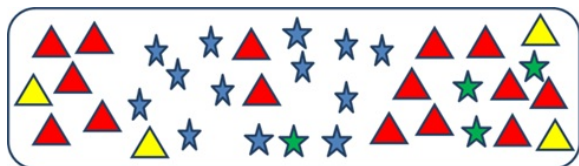
Graphs and Tables -OC

Time to teach	Asset Type	Theme	SubTheme
5 Minutes	Assessments	Data Handling	

9. QA_Collect and tabulate data

Answer the following

1) Count the number of blue stars and red triangles from the below picture and fill the table.



Answer:

Shape	Numbers
Blue stars	13
Red triangles	15

2) A survey has been carried out in a village and the number of different types of animals has been tabulated as shown below.

Picture	Animal	Numbers
	Cow	111
	Goat	70
	Buffalo	98

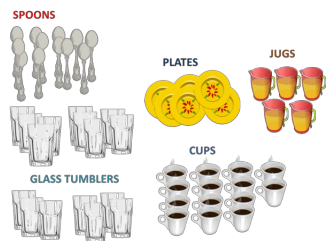
From the above table answer the following

1. The highest number of animals in the village is the _____
2. Least number of animal in the village are _____
3. Buffaloes' are _____ less than cows

Answers:

1. Cow
2. Goat
3. much

3) Look at the picture below and note the different types of utensils used in our home. Count the items and fill in the table.



Utensils	Numbers
Spoons	
Glass Tumblers	
Plates	
Jugs	
Cups	

Answer:

Utensils	Numbers
Spoons	12
Glass (Tumbler)	16
Plates	6
Jugs	5
Cups	14

Look at the above table and answer the following.

- a. The most number of utensils are _____ and it is _____ in number.
- b. Glass (Tumblers) are more than Jugs by _____ numbers.
- c. Plates are less than spoons by _____ numbers.

Answers:

1. glass tumblers, 16
2. 11
3. 6

List of the image links in the asset:

- 1) Cow : <https://pixabay.com/photos/cow-allg%C3%A4u-beef-pasture-animal-3611501/>
- 2) Goat : <https://pixabay.com/photos/goat-kid-domestic-goat-dwarf-goat-1461917/>
- 3) Buffalo : <https://pixabay.com/photos/buffalo-africa-safari-national-park-1682061/>
- 4) <https://pixabay.com/vectors/spoon-silverware-cutlery-3078582/>
- 5) <https://pixabay.com/vectors/glass-tumbler-water-glass-35499/>
- 6) <https://pixabay.com/vectors/dish-plate-christmas-decoration-157491/>
- 7) <https://pixabay.com/vectors/water-jar-jug-container-48521/>
- 8) <https://pixabay.com/vectors/mug-cup-coffee-hot-drink-beverage-306123/>

Time to teach	Asset Type	Theme	SubTheme
10 Minutes	Assessments	Data Handling	

10. MS_Summary_Smart Charts

In this lesson we learnt:

- 1) Collect data and interpret the data collected.
- 2) Measure and record their heights.
- 3) Collect and record the data and present in the form of tables or charts.
- 4) Represent the particulars as bar graphs and pictographs.
- 5) Relate to the use of smart charts to know about cleanliness, health and hygiene.

Time to teach	Asset Type	Theme	SubTheme
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5 Minutes	Main Script	Data Handling	Counting, Counting
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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.