ENHANCING CONVENTIONAL SIGNS AND SYMBOLS SKILLS THROUGH TECHNOLOGY APPROACHES AMONG STANDARD IX HANDLING TEACHERS IN K V KUPPAM BLOCK

- C KUMAR

Introduction:

"Mother Earth provides enough to satisfy every man's need, but every man is greedy" - M.K.Gandhi

Conventional signs and symbols are essential skills in various fields such as cartography, engineering, architecture, and design. They are used to represent features, objects, or phenomena on maps, plans, diagrams, and other visual representations. Here are some common conventional signs and symbols skills:

1. Map Reading:

- Understanding and interpreting symbols on maps such as contour lines, roads, rivers, buildings, and landmarks.
- Recognizing scale indicators and understanding distance measurements on maps.

2. Cartographic Symbols:

- Learning symbols for natural features like mountains, forests, lakes, rivers, and deserts.
- Understanding symbols for human-made features such as roads, railways, bridges, airports, and buildings.

3. Safety Symbols:

• Recognizing safety symbols used in various contexts such as hazardous materials, emergency exits, fire safety, and electrical warnings.

4. Legends and Key:

- Understanding legends and keys that explain the meaning of symbols used in a particular map, diagram, or plan.
- Creating clear and informative legends for maps and diagrams you create.

5. Symbol Standardization

- Following industry standards and conventions for using symbols consistently and accurately.
- Updating knowledge of symbols based on evolving standards and practices in different industries.

6. Communication Skills:

- Effectively communicating information using symbols and signs to convey complex ideas and data visually.
- Collaborating with team members and stakeholders by using standardized symbols for clarity and precision.

Improving your conventional signs and symbols skills requires practice, studying industry standards and guidelines, and staying updated with technological advancements in relevant fields. Taking courses, and workshops, and using simulation software can also be beneficial in honing these skills.

Identifying problems

KV Kuppam block social science handling not specific geography graduate among the teachers, geography subject mappings skills lesson concepts, like Maps, cartography, components of a map, scale, direction, grid system, Projection, Legend, **conventional signs and symbols**, survey, and remote sensing. There was lacking the signs and symbols not understand the concepts. Students learning geography concepts temporarily only. They have achieved very little in terms of outcomes. After the complication of enriching the concepts, surly state and national level signs and symbols directory will be high.

Need for the study:

- ♣ Teachers thought in high / higher secondary education should not get their geography concepts properly.
- ♣ It is the responsibility of the teachers to teach. Class IX Social Science in mapping skills Conventional signs and symbols.

↓ Learning outcomes in SST 905 and 906.

♣ Open an image in which the geography lesson contains the Map and

Atlas.

♣ Ability to understand and draw Conventional signs and symbols etc.

Objectives of the study:

To enrich awareness about conventional signs and symbols.

• To additional support conventional signs and symbols in maps or Atlas.

• To help conventional signs and symbols improve the knowledge of mapping

reading skills Unknowing areas like (state, country) map key will support

gaining the knowledge.

To know the relevance of PPT and colorful pictures suitable for the

conventional signs and symbols

Hypothesis:

There is no significant difference between the Enter–Level measure and Exit level

measure performance of the students.

Research Methodology:

Stage1: Entry-level measure

Stage2: Introduced signs and symbols

Stage 3: color Picture, Powerpoint

Stage 4 : Exit level Measure

Design of the Study:

A single-group Group Experimental study is adopted

Sample:

IX standard handling teachers in KV KUPPAM Block

(Govt and GADW Schools only)

Higher Secondary schools = 10

- 1. GHSS GUDIYATHAM RS
- 2. SGR GHSS KOSAVANPUDUR
- 3. GHSS PANAMADANGI
- 4. GHSS VADUGANTHANGAL
- 5. GHSS SENJI
- 6. GBHSS LATHERI
- 7. GBHSS KV KUPPAM
- 8. GGHSS LATHERI
- 9. GGHSS KV KUPPAM
- 10.GADWHSS PILLANTHIPATTU

High Schools = 6

- 1. GHS -Devarishikuppam
- 2. GHS Pasumathur
- 3. GHS Machanur
- 4. GHS Melmoil

- 5. GHS Thirumani
- 6. GHS PALLATHUR
- 7. ADWGHS -Ammanagkuppam

Tool

Entry and exit questionnaire

Analysis

't' test is used for analyzing the data collected.

Research Methodology

Stage 1: The researcher and Subject experts (DIET Senior Lecturer) and Handling Subject Teacher) can together discuss and prepare the questions regarding the pre-test and post-test questionnaire.



Stage 2: 22.01.2024 Pre-test is conducted IX STD students. The handling of social science subject one - day training was conducted at BRC K V Kuppam

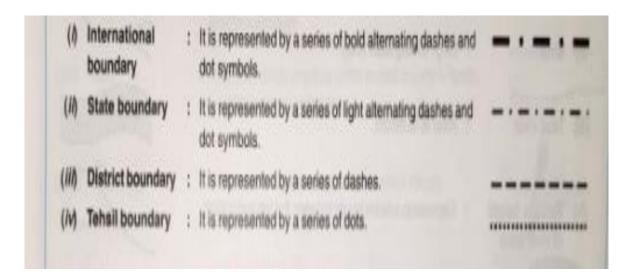


S.NO	NAME OF THE TEACHER	Name of the Teacher	PRE- TEST	Convert to 100 marks
			(20) MARKS	
1	GHSS – GUDIYATHAM RS	P.VIJAYA	8	40
2	SGR GHSS – KOSAVANPUDUR	M.G SANKAR	6	30
3	GHSS – PANAMADANGI	D SANTHI	8	40
4	GHSS – VADUGANTHANGAL	S. SAMUDESWARI	7	35
5	GHSS – SENJI	K. MAGENDIRAN	6	36
6	GBHSS LATHERI	N. SATHIKUMARAN	9	45
7	GBHSS KV KUPPAM	R RAGU	11	55
		A	8	40

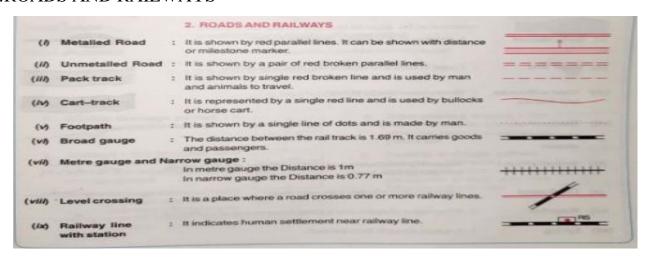
		MOHANASUNDRAM		
8	GGHSS LATHERI	V S SHANTHI	9	45
9	GGHSS KV KUPPAM	R PAPPEENA	11	55
		D SURIYA	10	50
		S ARUL JOTHI	8	40
10	GADWHSS PILLANTHIPATTU	D SELVI	7	35
11	GHS -Devarishikuppam	S SHAM KUMAR	8	40
12	GHS – Pasumathur	S JAYAKANTHAN	10	50
13	GHS – Machanur	S MAHESH	11	55
		S KALAI MATHI	9	45
14	GHS – Melmoil	V VIJAYA KUMARI	8	40
15	GHS – Thirumani	A M SEENIVASAN	8	40
16	GHS – PALLATHUR	J PUSHPAVATHI	6	30
17	ADWGHS - Ammanagkuppam	M THAMILHSELVI	6	30

Stage 3: Concept through, PPT, YouTube videos, Conventional signs and symbols explain

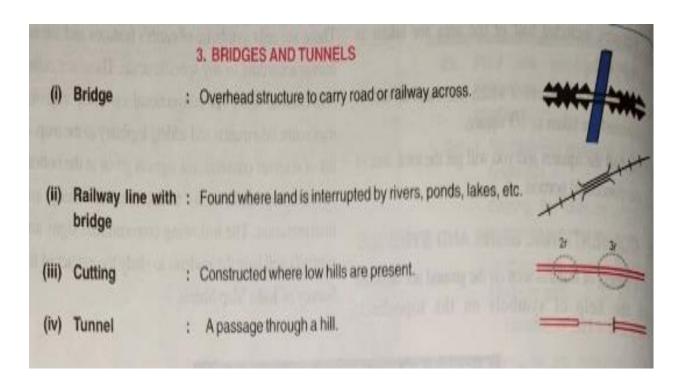
1. BOUNDARIES



2.ROADS AND RAILWAYS

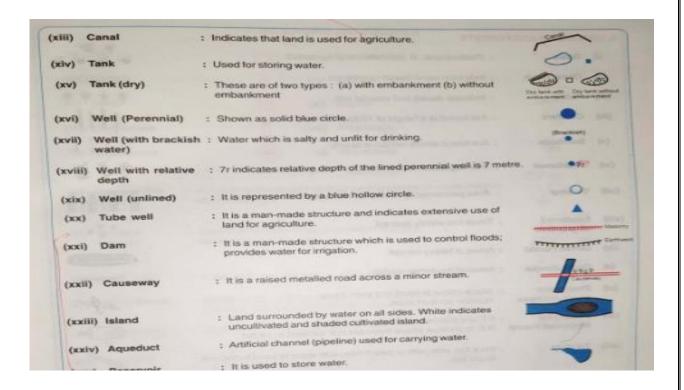


3. BRIDGES AND TUNNELS

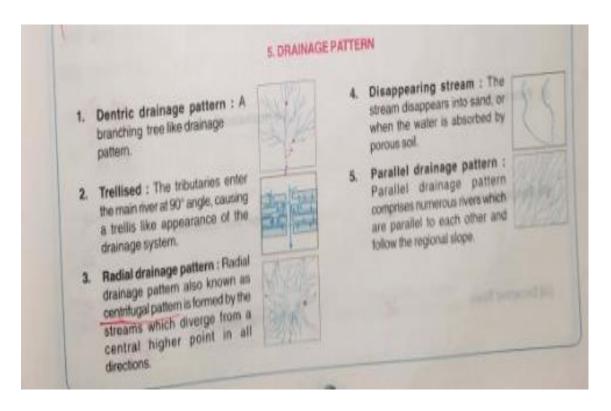


4. WATER BODIES

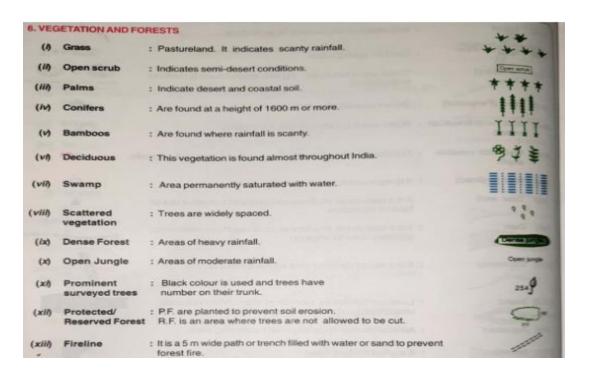
		4. WATER BODIES	
(i)	Stream	: Asmall river.	
(ii)	River	: Large flowing water body.	
(iii)	Tidal river	: River at its mouth.	
(iv)	Relative height of river bank	: Represents relative height between the top and bottom.	
(v)	Embankment	: A structure built to keep a river from flooding.	
(vi)	River Bed	: Found in semi-arid regions with seasonal rainfall.	
(vii)	River with rocks and islands	: Shows lower course of river.	
(viii)	Seasonal or non-perennial stream	: Found in arid regions with seasonal rainfall.	
(ix)	Broken ground	: Caused by weathering due to alternate wet and dry periods followed by flash floods.	25
(x)	Confluence	: Intersection of tributary with main river.	•
(xi)	Waterfall	: When water plunges over a steep slope or side of a highland.	-
(xii)	Spring	: Appears on earth from beneath.	



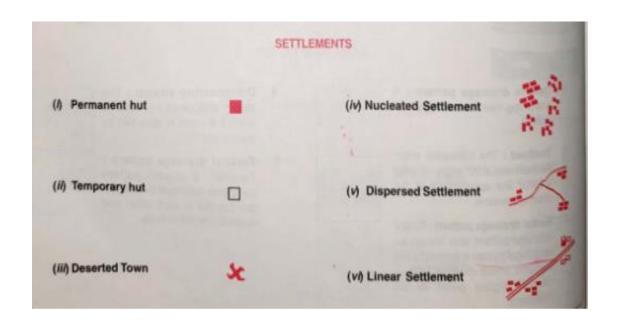
5. DRAINAGE PATTERN



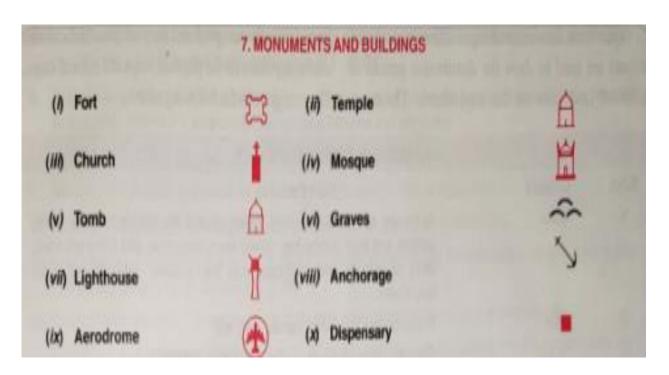
6. VEGETATION AND FOREST



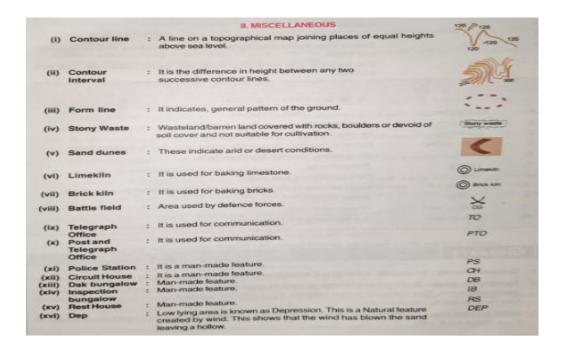
7. SETTLEMENTS



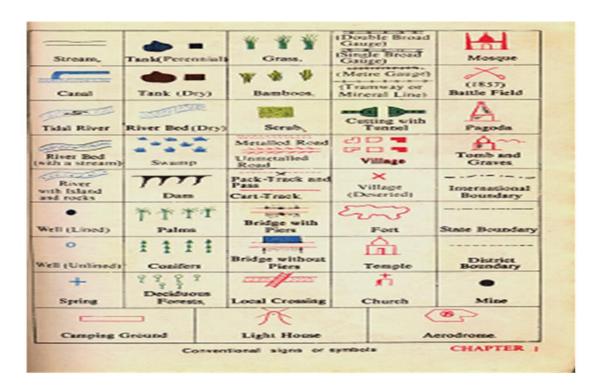
8. MONUMENTS AND BUILDING



9. MISCELLASIGN

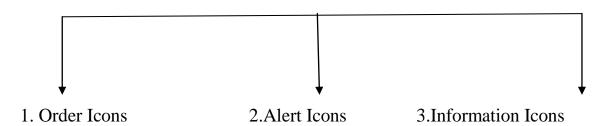


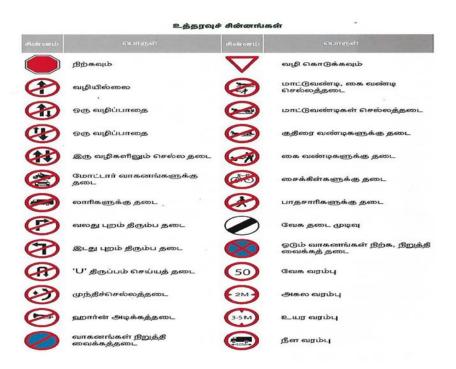
10.COLOURS AND THEIR SIGNIFICANCE



11.TRANSPORT ICONS

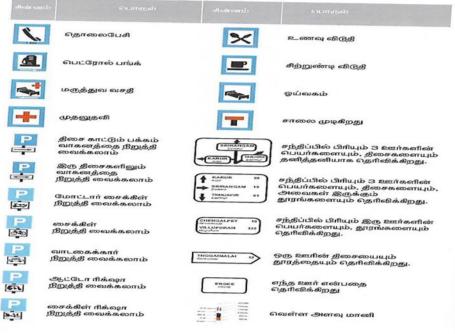
Transport icons

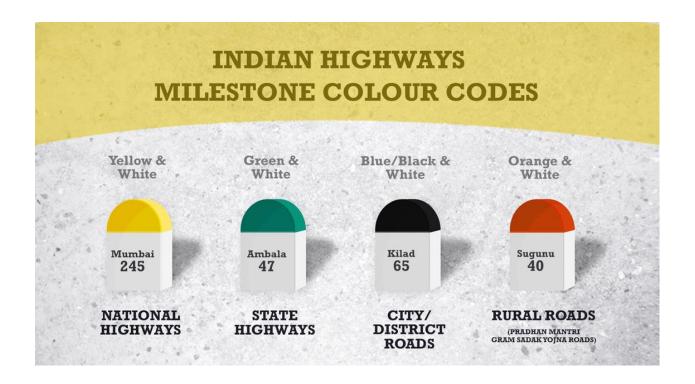






தகவல் சின்னங்கள்





Stage 1 Pre-Test

S.NO	NAME OF THE	Name of the Teacher	PRE-	Convert
	TEACHER		TEST	to 100
			(20)	marks
			` ′	
			MARKS	
1	GHSS –	P.VIJAYA	8	40
	GUDIYATHAM RS			
2	SGR GHSS –	M.G SANKAR	6	30
	KOSAVANPUDUR			
3	GHSS –	D SANTHI	8	40
	PANAMADANGI			
4	GHSS –	S. SAMUDESWARI	7	35
	VADUGANTHANGAL			
			ĺ	

5	GHSS – SENJI	K. MAGENDIRAN	6	36
6	GBHSS LATHERI	N. SATHIKUMARAN	9	45
7	GBHSS KV KUPPAM	R RAGU	11	55
		A MOHANASUNDRAM	8	40
8	GGHSS LATHERI	V S SHANTHI	9	45
9	GGHSS KV KUPPAM	R PAPPEENA	11	55
		D SURIYA	10	50
		S ARUL JOTHI	8	40
10	GADWHSS PILLANTHIPATTU	D SELVI	7	35
11	GHS -Devarishikuppam	S SHAM KUMAR	8	40
12	GHS – Pasumathur	S JAYAKANTHAN	10	50
13	GHS – Machanur	S MAHESH	11	55
		S KALAI MATHI	9	45
14	GHS – Melmoil	V VIJAYA KUMARI	8	40
15	GHS – Thirumani	A M SEENIVASAN	8	40
16	GHS – PALLATHUR	J PUSHPAVATHI	6	30
17	ADWGHS - Ammanagkuppam	M THAMILHSELVI	6	30

Stage 4: Independently school-wise conducted post-test by K.V. Kuppam block teachers. After conducting an awareness program for fifteen days.





POST TEST

S.NO	NAME OF THE	Name of the Teacher	PRE-	Convert
	TEACHER		TEST	to 100
			(20) MARKS	marks
1	GHSS –	P.VIJAYA	19	
	GUDIYATHAM RS			05
				95
2	SGR GHSS –	M.G SANKAR	20	100

	KOSAVANPUDUR			
3	GHSS –	D SANTHI	20	
	PANAMADANGI			100
4	GHSS –	S. SAMUDESWARI	18	
	VADUGANTHANGAL			90
5	GHSS – SENJI	K. MAGENDIRAN	19	95
6	GBHSS LATHERI	N. SATHIKUMARAN	17	85
7	GBHSS KV KUPPAM	R RAGU	17	85
		A	17	
		MOHANASUNDRAM		85
8	GGHSS LATHERI	V S SHANTHI	18	90
9	GGHSS KV KUPPAM	R PAPPEENA	19	95
		D SURIYA	19	95
		S ARUL JOTHI	19	95
10	GADWHSS	D SELVI	18	
	PILLANTHIPATTU			90
11	GHS -Devarishikuppam	S SHAM KUMAR	18	90
12	GHS – Pasumathur	S JAYAKANTHAN	19	95
13	GHS – Machanur	S MAHESH	20	100
		S KALAI MATHI	17	85
14	GHS – Melmoil	V VIJAYA KUMARI	16	80
15	GHS – Thirumani	A M SEENIVASAN	17	85
16	GHS – PALLATHUR	J PUSHPAVATHI	20	100

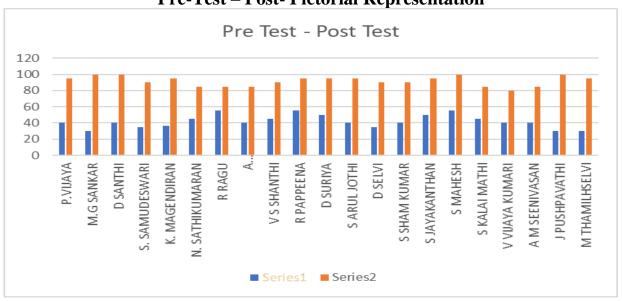
17	ADWGHS -	M THAMILHSELVI	19	
	Ammanagkuppam			95

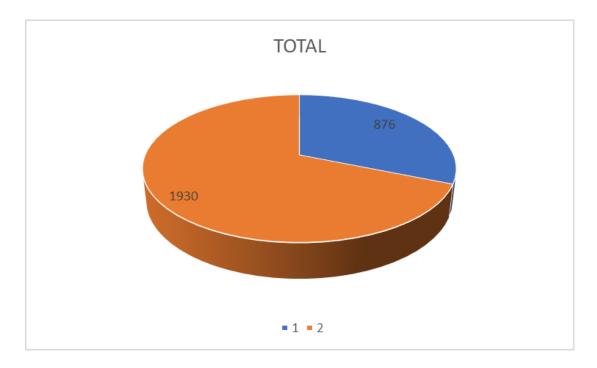
Pre-Test and Post-Test Analysis (100 marks)

S.NO	NAME OF THE SCHOOLS	NAME OF THE TEACHERS	PRE- TEST (Conver t to 100 marks)	POST TEST (Conver t to 100 marks)
1	GHSS –	P.VIJAYA	40	
	GUDIYATHAM RS			95
2	SGR GHSS –	M.G SANKAR	30	
	KOSAVANPUDUR			100
3	GHSS –	D SANTHI	40	
	PANAMADANGI			100
4	GHSS –	S. SAMUDESWARI	35	
	VADUGANTHANG			
	AL			90
5	GHSS – SENJI	K. MAGENDIRAN	36	95
6	GBHSS LATHERI	N.	45	
		SATHIKUMARAN		85
7	GBHSS KV	R RAGU	55	
	KUPPAM			85
		A	40	
		MOHANASUNDRA		
		M		85
8	GGHSS LATHERI	V S SHANTHI	45	90
9	GGHSS KV	R PAPPEENA	55	
	KUPPAM			95
		D SURIYA	50	95
		S ARUL JOTHI	40	95
10	GADWHSS	D SELVI	35	
	PILLANTHIPATTU			90
11	GHS -	S SHAM KUMAR	40	
	Devarishikuppam			90
12	GHS – Pasumathur	S JAYAKANTHAN	50	95

13	GHS – Machanur	S MAHESH	55	100
		S KALAI MATHI	45	85
14	GHS – Melmoil	V VIJAYA	40	
		KUMARI		80
15	GHS – Thirumani	A M SEENIVASAN	40	85
16	GHS - PALLATHUR	J PUSHPAVATHI	30	100
17	ADWGHS -	M THAMILHSELVI	30	
	Ammanagkuppam			95
TOTAL			876	1930
AVAERAG			41.71	91.70
E Score				91./0
Difference		49.9	9	

Pre-Test – Post- Pictorial Representation





13. CONSOLIDATED RESULT

The following results are arrived at based on the analysis:

- The Average Score of pre-test and post-test performance in understanding "Conventional signs and symbols" through integrated approaches is 41.71 and 91.70. There is a significant difference between the Average score of pre-test and post-test performance (49.99) in the understanding of "Conventional signs and symbols" through integrated approaches.
- Before the intervention, the investigator found that most of the teachers were unaware of knowledge/information about basic Conventional signs and symbols like how to react when day-to-day life, etc...
- The investigator found that this training was very crucial for teachers to adopt the techniques used in day-to-day life.

From these awareness programs, the investigator found that students benefitted from the integrated approach which consists of PPT, YouTube videos, and lecturer cum demonstration classes given by the Conventional signs and symbols.

14. FEEDBACK

The Intervention has made the KV Kuppam block teachers to

- ➤ Understood Conventional signs and symbols related information through PPT, and videos.
- ➤ Eagerly interacted with the Conventional signs and symbols information asked their doubts and cleared it.
- Felt that the given integrated approaches were useful and helped them to understand the information and adapt to their life.

15. IMPLICATIONS

This Action Research has highly motivated the teachers were participated in the day training classes eagerly and found that it is crucial for daily life situations and also to think a situation how to handle Conventional signs and symbols effectively. and how to teach and find ourselves in these nearby areas or cities. The teachers were actively involved in asking questions first and clarifying their doubts from the team members involved by the Conventional signs and symbols.



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