

## Mechanical Engineering Department

Academic Year – 2020-21	Class: BE DIV. A & B
Semester – I	Date : 12 /12/2020
Subject: Automobile Engg	
CO: CO1,CO2,CO3,CO4,CO5,CO6	PO: PO1

### Innovative Teaching Methods

**Title of Innovation method/activity:** Innovative Teaching Learning Method : Cross word Puzzle activity

1. Name of Faculty: Mr. V. V. Shinde

2. Subject: Automobile Engg

3. Objective of Method:

1. To understand the concept of different components present in an automobile, concept of brakes, batteries, damper, gears etc
2. To evaluate the perception of the students

4. **Topic Covered through Activity:**

Details of Gears, brakes, dampers, NVH, details of batteries

5. **Description of method with Benefits (8 – 10 lines):**

The crossword puzzle is a teaching tool and an active learning strategy. A crossword is a word puzzle that usually takes the form of a square or a rectangular grid of white and black-shaded squares. The game's goal is to fill the white squares with letters, forming words or phrases, by solving clues, which lead to the answers.

Benefits of method:

- It gives great satisfaction and confidence
- It helps students to get instant feedback.
- It enhances skills like reasoning, problem-solving and developing solutions.
- It helps focus attention and engage students.
- It helps teacher to collect on spot formative assessment.

**The method:**

With the help of this method students have shown that word search and other puzzles can help improve memory, focus, vocabulary, and overall mental acuity.

**Roles and Responsibilities****Teacher**

- Teacher has to prepare questionnaire consist of MCQs.
- Teacher has to prepare crossword puzzle and inform to students
- Teacher has to explain the method to the students in detail.

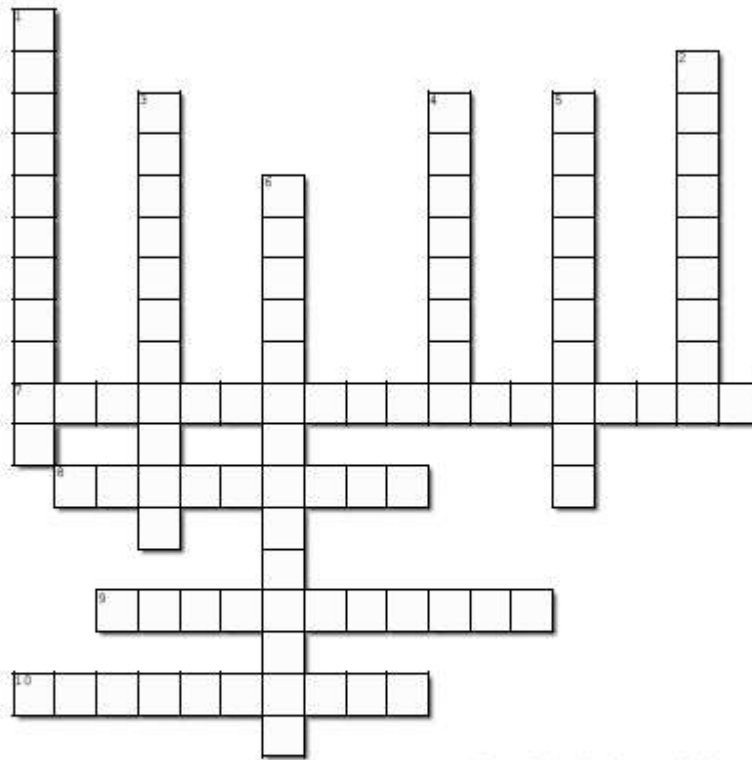
**• Student**

- Students have to solve the puzzle
- Student need to spell the words correctly.
- The student has to accurately fill in all the blank squares with letters those form words or answer.

**6. Assessment Tools**

Name: \_\_\_\_\_

Complete the crossword puzzle below



Created using the Crossword Maker on TheTeachersCorner.net

**Across**

- 7. The capacity of a battery is expressed in terms of
- 8. Distance between the centers of the front and rear wheels
- 9. Coil springs absorb shocks by
- 10. Device used to measure Engine RPM

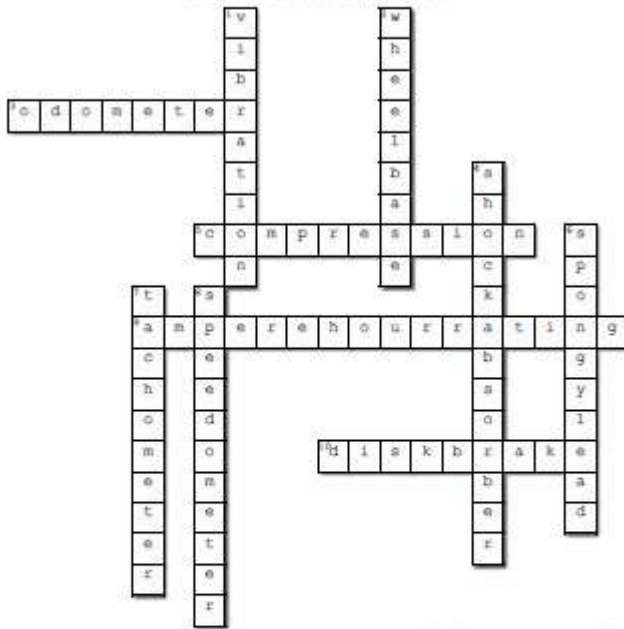
**Down**

- 1. Negative plates of the Lead acid battery
- 2. the term V in 'NVH'
- 3. Device used to measure speed of the vehicle
- 4. Device used to indicate distance traveled by the vehicle
- 5. In General brakes available on the front wheels
- 6. Damper is also known as

Name: \_\_\_\_\_

### Automobile Engg

Complete the crossword puzzle below



Created using the Crossword Maker on TheTeachersCorner.net

#### Across

3. Device used to indicate distance traveled by the vehicle (**odometer**)
5. Coil springs absorb shocks by (**compression**)
9. The capacity of a battery is expressed in terms of (**amperehourrating**)
10. In General brakes available on the front wheels (**diskbrake**)

#### Down

1. the term V in 'NVH' (**vibration**)
2. Distance between the centers of the front and rear wheels (**wheelbase**)
4. Damper is also known as (**shockabsorber**)
6. Negative plates of the Lead acid battery (**spongylead**)
7. Device used to measure Engine RPM (**tachometer**)
8. Device used to measure speed of the vehicle (**speedometer**)

## 7. Evaluation sheet of attendee

Roll No	Name of students	Marks
1	Ahire Kishor Sanjay	9
2	Ahire Komal Fakira	10
3	Ahire Mayur Prakash	10
4	Ahire Sagar Jagannath	10
5	Bachhav Pratiksha Subhash	10
6	Baste Yadnesh Govindrao	10
7	Bhadane Saurabh Ravindra	10
8	Bhand Kartikkumar Rajaram	10
9	Bhandare Akash Sanjay	AB
10	Bhoye Rohit Padmakar	AB
11	Birar Satyam Arun	9
12	Bodhare Sunil Vishnu	10
13	Bodke Priyanka Dnyaneshwar	10
14	Borade Dhananjay Mhasu	10
15	Borse Shraddha Pandharinath	8
16	Burad Yash Rajesh	10
17	Burhade Rupeshkumar Suresh	9
18	Chaudhari Gaurav Vishwas	9

19	Chaudhari Prafulla Dattatray	9
20	Chaure Rahul Navnath	AB
21	Chavan Ketan Umesh	10
22	Dange Shreyas Sharadrao	10
23	Dangre Gaurav Manik	9
24	Darange Atharva Kamalesh	AB
25	Dashpute Ketan Anil	8
26	Deore Amol Ramesh	10
27	Diwate Sahil Sanjay	9
28	Gaikwad Pratik Gautam	9
29	Gangurde Pavan Hemant	9
30	Gangurde Pushpak Meghraj	10
31	Gangurde Roshan Rajiv	9
32	Gaware Krishnalee Dattatray	10
33	Gaykhe Apurv Suresh	10
34	Gite Saurabh Dnyaneshwar	10
35	Gunjal Bhushan Bapurao	9
36	Gupta Swami Hemant	9
37	Hasan Danish Parvez	10
38	Hiray Prasanna Abhay	18
39	Holaria Chandan Thakursingh	10
40	Ingle Ajinkya Shantaram	AB
41	Jadhav Pratik Babaji	10
42	Jadhav Ritesh Premchand	9
43	Jadhav Tejaswini Tribhuvan	10
44	Jadhav Vikas Sudam	AB
45	Jagtap Apoorva Rajendra	9
46	Jagtap Shubham Rajesh	10
47	Jangid Vishal Anand	9
48	Joshi Parimal Sanjay	9
49	Kadam Mayur Rajendra	10
50	Kalantri Jayesh Manoj	9
51	Kale Sanket Dipak	9
52	Kandekar Omkar Sudhakar	10
53	Kardile Akash Kailas	10
54	Kare Avanti Dipak	10
55	Khairnar Asmita Annasaheb	10
56	Kholamkar Mrunal Manish	10
57	Koli Vivek Dilip	10
58	Kothawade Gaurav Anil	10
59	Kotwal Gaurav Vijay	10
60	Kshirsagar Manish Subhash	9
61	Kute Gaurav Bhala	10
62	Lolage Jayesh Ghanshyam	10
63	Bakure Pavan Anil	AB
64	Bhagat Yogesh Waman	10
65	Bhamre Aditya Krantikumar	10
66	Bodke Bhushan Kachru	AB
67	Barhate Siddhant Muralidhar	10

68	Bonde Sumit	10
69	Chaudhari Harshal Manoj	9
70	Chaudhari Pratik Deelip	10
71	Bagul Rahul Suresh	10
72	Daware Vishwadeep	10

<b>Roll No</b>	<b>Name of Student</b>	<b>Marks</b>
81	Mali Sunil Chanappa	10
82	Mhalas Gandhali Sunil	10
83	Mhasane Shriram Kailas	10
84	Mohan Darshana Sanjay	10
85	More Ajay Rajendra	10
86	More Shivam Jeetendra	10
87	Mulmule Dushyant Sanjay	10
88	Nankar Mansi Nitin	9
89	Neha Ukha Saokar	10
90	Netawane Tejas Rajendra	10
91	Nikam Kalpesh Satish	10
92	Nikam Nikita Bhausheb	10
93	Nikam Saurabh Yuvaraj	10
94	Patade Pratik Chindhu	10
95	Patil Akshay Dilip	9
96	Patil Aniket Rajendra	10
97	Patil Dhanashri Rajendra	10
98	Patil Ganesh Hiranman	10
99	Patil Jayesh Ramchandra	10
100	Patil Nachiket Sanjay	10
101	Patil Niraj Shridhar	AB
102	Patil Piyush Sunil	10
103	Patil Prachi Rajendra	10
104	Patil Rutuja Sunil	10
105	Patil Siddharth Sunil	10
106	Patole Tushar Suresh	10
107	Pawar Akash Rajendra	10
108	Pawar Ankita Sunil	10

109	Pawar Mayur Ravindra	10
110	Pawar Meghana Rajendra	10
111	Pawar Pranali Rajendra	10
112	Pawar Priyanka Gauttam	9
113	Pawar Yash Krishna	AB
114	Payghan Pradip Bhagwan	10
115	Prajapati Prakash Mohan	AB
116	Rajput Keturaj Komalsing	10
117	Rakibe Mangesh Vijay	9
118	Randive Pranav Mohan	10
119	Rasal Aniket Shashikant	9
120	Rayate Amruta Mukund	10
121	Rushiprasad Raghunath Watpade	9
122	Sangewar Vyomkesh Jeetendra	
123	Sen Preethesh Tanmoy	10
124	Shaikh Jishan Chandbhai	10
125	Shardul Eshwary Arun	9
126	Shelke Abhishek Sunil	9
127	Shikalikar Danish M Salim	10
128	Shinde Vaibhav Dnyaneshwar	9
129	Shirsat Darshan Tanaji	9
130	Shirsath Pooja Sanjay	10
131	Somvanshi Akash Nandkumar	10
132	Sonar Anuja Kailas	10
133	Sonawane Harshali Shivaji	AB
134	Suravase Vitthal Kondiba	10
135	Talele Priya Hemant	10
136	Thorat Abhishek Satish	10
137	Vyavahare Chinmay Charudatta	10
138	Wable Mansi Bhikan	10
139	Wagh Tushar Anil	9
140	Warke Kunal Suresh	10
141	Wedhane Nikhil Jaywant	10

142	Bhalerao alankar	AB
143	Deshmukh saurabh	10
144	Jain avinash	10
145	Kumavat Gaurav Sunil	AB
146	Pardeshi Jayesh Dipak	AB
147	Patel Mehul Shamji	AB
148	Dholi Swapnil Sudam	AB
149	Shinde Bhushan Balu	AB
150	Vadnere Vikrant	AB
151	Suryavanshi Yash Dinesh	10
152	PatilSagar Babulal	8
153	Devgire Viswas Sampat	AB

## 8. Activity Picture

Crossword Fuzzle 1

12\_Priyanka Bodke 10/10

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priyanka.bodke.12\_A

Grade  
10/10

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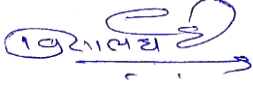
Automobile Engg  
Name: priyanka D. Bodke  
Roll No: 12  
[BE Mech-A]

Complete the crossword puzzle below

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NBA Coordinator



Dr. V.C. Shewale  
HoD







