Chem-E-Cross

Motivation

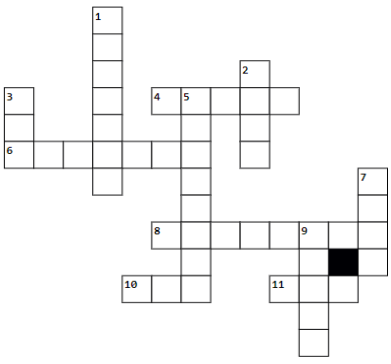
Every one of us might have solved crosswords in the newspaper or on the back of a book when we got bored. This time, we are introducing a crossword filled with fuzzy reactors and shiny catalysts, over which multiple clues react to give you the final product – a completed crossword puzzle. Chem-E-Cross, a completely online monthly crossword series, spans topics ranging from the fundamental laws of chemical engineering to advanced engineering concepts in a beginner friendly format, so that students from any year of study can participate on equal footing. This competition challenges you to connect seemingly unrelated ideas and a whole lot of information deduce the perfect fit for the given clues.

Gameplay

Each crossword in the series is an American style crossword. At first glance, the cryptic clues may appear daunting, but the answer lies right in front of you, hidden in the clue! Every clue contains a description of the answer you are looking for in the grid. All you have to do is find the word that fits right in! Read a clue (across/down) and go its corresponding position in the crossword grid. You will then get an idea of how many letters the answer contains. Next, you can start the guessing answer and filling it out in the grid. If your guessed word matches the solution, it will be displayed in green colour and a green tick will appear before the clue, else it will be displayed in red colour along with a red cross before the clue.

Demo Crossword Illustration:

Here is an example showing how to solve the Crossword:



Across

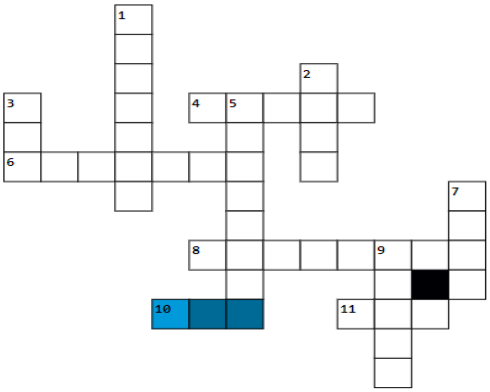
4. Has black and white stripes
6. Tallest land animal
8. Hopping Australian marsupial
10. Likes to chase mice
11. Like to roll around in the mud

Down

1. Fastest land animal
2. Starts life as a tadpole
3. Man's best friend
5. Large animals with a trunk
7. King of the jungle
9. Large animal with a horn

Figure 1: The above figure is an example how the crossword looks

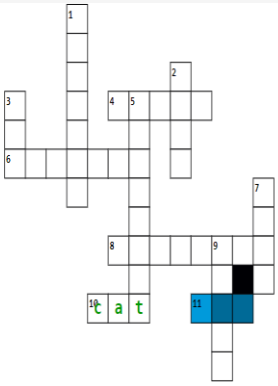
Step 1: Choose any clue that you wish to decipher, either across or down. The crossword then automatically points to the position of the corresponding word in the grid.



Across
4. Has black and white stripes
6. Tallest land animal
8. Hopping Australian marsupial
10. Likes to chase mice
11. Like to roll around in the mud

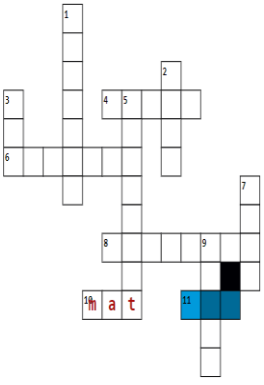
Down
1. Fastest land animal
2. Starts life as a tadpole
3. Man's best friend
5. Large animals with a trunk
7. King of the jungle
9. Large animal with a horn

Step 2: Start guessing the word and enter it in the grid. If the answer matches your guess then it is shown in green colour and a green tick appears beside the clue. If not, it is shown in red while a red cross appears beside the clue, as seen in the image below-



Across
4. Has black and white stripes
6. Tallest land animal
8. Hopping Australian marsupial
√**10.** Likes to chase mice
11. Like to roll around in the mud

Down
1. Fastest land animal
2. Starts life as a tadpole
3. Man's best friend
5. Large animals with a trunk
7. King of the jungle
9. Large animal with a horn



Across
4. Has black and white stripes
6. Tallest land animal
8. Hopping Australian marsupial
x**10.** Likes to chase mice
11. Like to roll around in the mud

Down
1. Fastest land animal
2. Starts life as a tadpole
3. Man's best friend
5. Large animals with a trunk
7. King of the jungle
9. Large animal with a horn

Left: The green tick beside 10. and green text means that the guessed word is correct

Right: The red cross beside 10. and red text implies that the guessed word is incorrect.

Note: You can keep guessing the word as many times as you wish, until you get the right answer, i.e. a green tick beside the clue.

General Rules:

1. This will be a **four-crossword puzzle series** with one crossword releasing each in the months of **November, December, January** and **February**.
2. This is an individual participation competition.
3. Undergraduate college students from any engineering background can participate in this competition.
4. The crossword portal link will be launched on the contest day through our social media handles, listed below-
   Facebook: https://www.facebook.com/AZeotropy
   Instagram: https://www.instagram.com/iitbombay_azeotropy/
5. You can directly open the portal and start solving the crossword. No prior registration is required to participate in this competition.
6. The first puzzle of the Chem-E-Cross series is scheduled on **Sunday, 8 November, 2020**. The portal will remain active from **11:00 A.M to 11:00 P.M. IST.**
7. You have to enter the **correct answers** obtained from the crossword in an **electronic form** (Google form/MS form) and submit it before **11:00 P.M. IST.**
8. **Timestamp** of the submission will be considered in case of a tie.
9. Your **mobile number** will be considered as your unique ID throughout the series.
10. The answer to each of the given clues is unique. The answers are **case sensitive,** so use **only lower-case letters** to fill your answers in the electronic form.
11. Any form of plagiarism using social media or other means will lead to immediate disqualification.
12. The final decision-making authority lies with Team AZeotropy, IIT Bombay.

Leaderboard Details:

1. Scores will be compounded with the forthcoming crosswords, and there will be an **overall leaderboard** apart from the **individual monthly leaderboard**.
2. The leaderboard will be shared within a week of the date of completion of each edition, with all the participants.
3. The **overall leaderboard** will feature only those students who **participate in all four puzzles** of Chem-E-Cross series.

Certificates and Prizes:

1. **Top 10** winners of the monthly puzzle will feature on our social media handles.
2. **Top 3** winners of the monthly crossword will be awarded prizes and certificates.
3. **Top 5** winners of the overall Chem-E-Cross series will be awarded special prizes and **top 10** participants will be awarded certificates.

For any queries related to the competition, participants can contact:
Uma Mahesh P
Competitions Manager, AZeotropy
Mob: +91-9032114079, WhatsApp: +91-9892768991
Email: umamahesh@azeotropy.org