PROJECT WORK FOR CLASS 8

ENGLISH LANGUAGE

1. Your school has organised a workshop on Robotics to, where you got the opportunity to learn about the artificial intelligence in various field.Write a letter to your friend briefing about the workshop and the benefits you have received.

2. 'AI could solve major challenges and crisis situations' Give you views for or against the topic in not more than 300 word

ENGLISH LITERATURE

1. Watch the movie 'Terminator' and write its synopsis and paste the pictures of the characters in your project file.
2. Write a short story about characters who take the help of AI to connect to extraterrestrial life.

हिंदी भाषा और साहित्य

1. 'कृत्रिम बुद्धिमत्ता' विषय पर जानकारी इकट्ठा कर सचित्र परियोजना तैयार कीजिए।

संकेत बिंदु -

i. कृत्रिम बुद्धिमत्ता का अभिप्राय

ii. इसकी उपयोगिता / महत्व

iii. इससे हानि / खतरा तथा बचाव के उपाय

iv. निष्कर्ष / उपसंहार

(शब्द-सीमा 300)

2. भारत की तरफ से 'विदेशी भाषा में' सर्वश्रेष्ठ फिल्म के ऑस्कर सम्मान के लिए आधिकारिक रूप से चयनित फिल्म 'न्यूटन' की समीक्षा कीजिए।

3. 'राजभाषा हिंदी' विषय को आधार बनाकर दो या तीन मित्रों के बीच हुई बातचीत को संवाद के रूप में लिखिए।

(शब्द सीमा 200)

4. 'सच्ची वीरता' पाठ का सारांश अपने शब्दों में लिखिए। (शब्द सीमा 200)

MATHEMATICS

1. Design a budget for a family vacation, including expenses for transportation, accomodationand activities.

2. Create a Maths puzzle booklet with different levels of difficulty for your classmates to solve.

Topic - Rational numbers, Exponents and powers, Algebraic expressions, Quadrilateral.

3. Explain by using flowchart the role of Mathematics in Artificial Intelligence.

PHYSICS

1. Conduct the following activity. Take 100 ml of water in a beaker and mix sugar in it till you cannot mix any more sugar (sugar starts settling down at the bottom of the beaker). Now, heat the beaker and try mixing more sugar, it will dissolve easily. Does the density of a substance change with temperature? Discuss the relationship between temperature and density.

2. Discuss how the variation in density of air at different altitudes affects weather patterns? Explain the concept of air pressure

and its relationship to density. Explain how AI is helpful in finding altitude and density in context to weather pattern.

3. Use the internet to research what is meant by dry ice and how it is used as a cooling agent. Share your findings.

CHEMISTRY

1) Prepare a creative report which includes the following:

• A brief overview of matter in chemistry.

• Applications of AI in chemistry and its significance.

• Examples and applications of AI in understanding and manipulating matter.

2) Case study:

Gases are highly compressible as compared to solids and liquids. LPG cylinder that we get in our home for cooking or the oxygen supplied to hospitals in cylinders is compressed gas. CNG is used as fuel these days in vehicle.

a. Write the full form of LPG.

b. Name the state of matter which has maximum compressibility.

c. Write any one advantage of CNG.

BIOLOGY

1. Investigate the impact of climate change on a specific ecosystem and propose solutions to mitigate its effects. (Word limit 200)

2. Explore how AI technologies like deep learning are revolutionizing medical imaging techniques, such as MRI, CT scans, and X-rays, to aid in the diagnosis of diseases and the development of personalized treatment plans. (Word limit 200)

HISTORY

1. Explore and write about the emergence of AI and its historical timeline, from its conceptual beginnings to its modern applications.
2. How has AI evolved over time, examine its impact on various fields such as medicine, transportation, and entertainment

GEOGRAPHY

1. In what ways AI can be used in meteorological department to forecast weather.
2. Explain how Artificial intelligence technologies are helpful in Population survey, Literacy rate, Gender Ratio,Rural Urban population and census. (Word limit 200)

COMPUTER APPLICATIONS

1. Create a blog on blogging website Blogger.com on a topic "How AI and Robotics are changing the world" and write steps of creation of blog in MS Word. Also printout the blog page and attach with the project.

2. Learn basic cyber security practices and create a guide (printout) for staying safe online.

DRAWING

Create an attractive painting using old *Soop.* _Use acrylic paint to colour the painting.