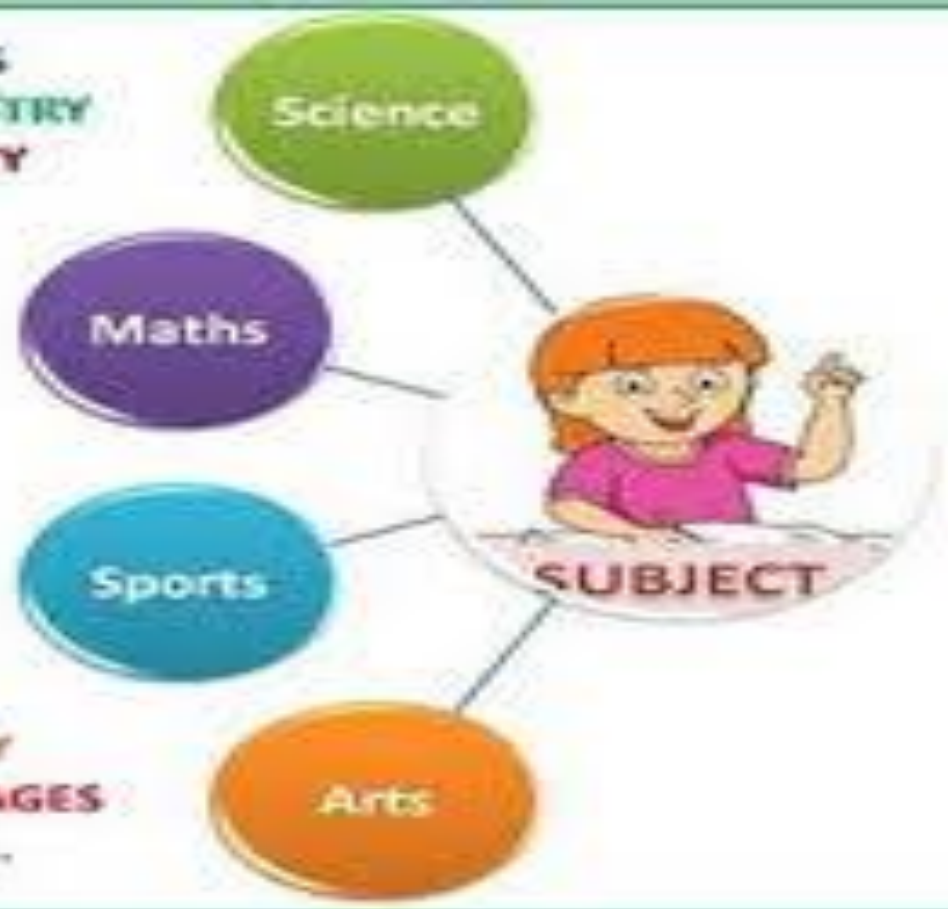


# Suitable Subjects

- PHYSICS
  - CHEMISTRY
  - BIOLOGY
- ANALYTICAL
  - LATERAL
  - Others...
- CRICKET
  - CHESS
  - STRATEGY
  - Others...
- HISTORY
  - LANGUAGES
  - Others...



## SUBJECTS AND THEIR CAREER LINKS

# Thinking about what subjects to take at school.



- ▶ There are various subjects one can choose from but it is key to bear in mind 3 things:
- ▶ 1. What subjects are offered in your high school?
- ▶ 2. What are your career interests?
- ▶ 3. What are your personal interests?
- ▶ Based on this decide about the subjects you would like to study. The next few slides give the information on Subjects and their Career links.

# BIOLOGY AND CHEMISTRY

Agriculture and allied fields like Forestry, Horticulture, Animal Husbandry etc.

- **Biochemistry**
- **Bioinformatics**
- **Biomedical Engineering (combines biology and engineering, applying engineering principles and materials to medicine and healthcare)**
- **Biomedical Sciences(combines the fields of biology and medicine)**
- **Biometrics**
- **Biomimetics(recognize, authenticate and identify persons based on certain physical or behavioral characteristics)**
- **Biotechnology**
- **Cheminformatics (use of physical chemistry theory with computer and information science techniques)**

# CONTD.

- ▶ **Engineering (Physics, Chemistry, Maths)**
- ▶ • **Environmental Science**
- ▶ • **Forensic Science**
- ▶ • **Metallurgy**
- ▶ • **Genetics**
- ▶ • **Genetics Law**
- ▶ • **Geology**
- ▶ • **Hospital / Health Management**
- ▶ • **Indian Forest Services**
- ▶ • **Medical and Paramedical fields like Physiotherapy, Optometrics, Audiology etc.**  
**(Physics, Chemistry and Biology)**
- ▶ • **Neurosciences**
- ▶ • **Oceanography**

# COMMERCE AND ACCOUNTS

## ▶ Careers/ specialisations

- ▶ • Banking
- ▶ • Business Management
- ▶ • Chartered Accountancy (CA)
- ▶ • Certified Public Accountant (CPA)
- ▶ • Accountant(ACCA)
- ▶ • Company Secretary (CS)
- ▶ • Cost and Management Accountancy
- ▶ • Chartered Financial Analyst (CFA)
- ▶ • Finance and Investment related fields
- ▶ • Forensic Accounting(area of accounting that investigates whether firms engage in financial reporting misconduct)
- ▶ • Insurance
- ▶ • Real Estate
- ▶ • Teaching and Research

# COMPUTER SCIENCE

- ▶ **Computer Science Engineering**
- ▶ **Robotics**
- ▶ **Business Intelligence**(combines business analytics, data mining, data visualization, data tools and infrastructure, and best practices to help organizations to make more data-driven decisions)
- ▶ **Web Developers**( a programmer who specializes in the development of World Wide Web applications using a client–server model)
- ▶ **Computer Support Specialist**( provide useful, necessary information technical assistance,support to individuals/ organizations)
- ▶ **Software quality Assurance**( practice of monitoring the software engineering processes and methods used in a project to ensure proper quality of the software)
- ▶ **Computer & Information Research Scientist**
- ▶ **Analyst**(one who analyses)
- ▶ **Data Mining Specialist**( finds the hidden information in vast stores of data, decides the value and meaning of this information, and understands how it relates to the organization)
- ▶ **Ethical Hacker**

# ECONOMICS

- ▶ • **Business Economics**
- ▶ • **Development Economics**
- ▶ • **Econometrics**
- ▶ • **Economist**
- ▶ • **Environmental Economics**
- ▶ • **Financial Economics**
- ▶ • **Indian Economics Services (IES)**
- ▶ • **Mathematical Economics( application of mathematical methods to represent theories and analyze problems in economics)**
- ▶ • **Econometrics (application of statistical methods to economic data in order to give empirical content to economic relationships)**
- ▶ • **Political Economics( study of production and trade and their relations with law, custom and government; and with the distribution of national income and wealth)**
- ▶ • **Public Health Economics**
- ▶ • **Statistics**
- ▶ • **Teaching and Research**

# ENGLISH (LITERATURE)

- ▶ • Advertising (Copy writing)
- ▶ • Creative Writing
- ▶ • Editing
- ▶ • Journalism (Print and Electronic)
- ▶ • Linguistics
- ▶ • Public Relations
- ▶ • Publishing
- ▶ • Script Writing
- ▶ • Technical Writing
- ▶ • Teaching and Research
- ▶ • Translation



# GEOGRAPHY

- ▶ • **Analysing Remote Sensing Data**
- ▶ • **Cartography-** the study and practice of making maps
- ▶ • **Climatology-** scientific study of climate
- ▶ • **Demography-** statistical study of population
- ▶ • **Economic Geography-** subfield of human geography which studies economic activity.
- ▶ • **Energy Analyst-** specialist with a high-level understanding of energy markets and the responsibility of locating, gathering, and analysing energy data to provide information and analysis to their company and/or clients.
- ▶ • **Environment and Ecology**
- ▶ • **Environmental Management**
- ▶ • **Forest Management**
- ▶ • **Geographic Information Systems**
- ▶ • **Globalisation, Governance and Development-** Covers the multiple dimensions—social, cultural, and political.

# CONTD.

- ▶ • **Human Resources Development**
- ▶ • **Journalism**
- ▶ • **Meteorologist- a person who studies the weather**
- ▶ • **Population Studies- geographical study of population, including its spatial distribution, dynamics, and movement**
- ▶ • **Rural Management- study of planning, organising, directing, and controlling of rural area, co-operatives, agribusiness..**
- ▶ • **Social Work** - **Soil Conservationist**
- ▶ • **Teaching and Research**
- ▶ • **Travel and Tourism** - **Urban and Regional Planning**

# HISTORY

- ▶ **Archaeologist**
- ▶ **Archivist- assesses, collects, organizes, preserves, maintains control over, and provides access to records and archives determined to have long-term value.**
- ▶ **Clodynamics (History & Mathematics) area of research that integrates cultural evolution, economic history/cliometrics, macrosociology, the mathematical modeling of historical processes.**
- ▶ **Cultural Resources Management**
- ▶ **Digital History- the use of digital media to further historical analysis, presentation, and research**
- ▶ **Economic History**
- ▶ **Gender Studies**
- ▶ **Historian**
- ▶ **International Relations**
- ▶ **Journalism**
- ▶ **Museology, Curator**
- ▶ **Public Administration**
- ▶ **Teaching and Research**

# HOME SCIENCE

- ▶ • **Culinary Arts**
- ▶ • **Child Development**
- ▶ • **Cosmetology**
- ▶ • **Dietetics**
- ▶ • **Fabric and Textile Design**
- ▶ • **Food and Nutrition**
- ▶ • **Health care related fields**
- ▶ • **Interior Decoration**
- ▶ • **Resource Mangement**
- ▶ • **Teaching and Research**

# MATHEMATICS

- ▶ • **Actuarial Science (Insurance)**
- ▶ • **Architecture**
- ▶ • **Banking, Finance and Investment**
- ▶ • **Behavioural Finance (Psychology and Finance)**
- ▶ • **Civil Aviation (Physics and Maths)**
- ▶ • **Computer Science, Artificial Intelligence, Programming, Software Engineering, Cybernetics**
- ▶ • **Defence Services - Airforce and Navy (Physics and Maths)**
- ▶ • **Engineering (Physics, Chemistry and Maths)**
- ▶ • **Financial Engineering**
- ▶ • **Indian Statistical Services**
- ▶ • **Management and Finance related fields**

# CONTD.

- ▶ • **Market Research**
- ▶ • **Merchant Navy (Physics, Chemistry and Maths)**
- ▶ • **Operational Research (finding mathematical solutions to business problems)**
- ▶ • **Pharmacy (Physics, Chemistry and Maths)**
- ▶ • **Teaching and Research**
- ▶ • **Scientist**

# POLITICAL SCIENCE

- ▶ **Human Rights**
- ▶ **International Affairs Relations**
- ▶ **Political , Social Activist**
- ▶ **Policy formulation and advocacy**
- ▶ **Policy Analyst**
- ▶ **Public Administration**
- ▶ **Political Advisor**
- ▶ **Political Commentator**
- ▶ **Research Analyst**
- ▶ **Social Work**
- ▶ **Teaching and Research**
- ▶ **Writer**

# PSYCHOLOGY

- \*Animal Psychiatry
- \*Behaviour Applied Psychology
- \*Behavioural Finance (Psychology and Finance)
- \*Cognitive Sciences
- \*Child Psychology
- \*Counselling Psychology
- \*Clinical Psychology
- \*Educational Psychology
- \*Experimental Psychology
- \*Forensic Psychology
- \*Human Resource Development
- \*Industrial Psychology
- \*Neuro-sciences
- \*Occupational Psychology
- \*Organizational Behaviour
- \*Paramedical Psychology Relations
- \*Personnel Management and Industrial Relations
- \*Public Relations
- \*Psychotherapy
- \*Social Psychology
- \*Special Education
- \*Teaching and Research



# SOCIOLOGY

- ▶ **Counselling**
- ▶ **Consultancy**
- ▶ **Computational Social Science (Computer and Social Science)**
- ▶ **Environment related fields**
- ▶ **Gender Studies**
- ▶ **Health Care**
- ▶ **Market Research**
- ▶ **Political Sociology**
- ▶ **Population studies/ Demography**
- ▶ **Social Analytics**
- ▶ **Socio-Legal fields**
- ▶ **Social Work / NGOs**
- ▶ **Teaching and Research**
- ▶ **Urban Studies**
- ▶ **Women Studies**

# SUBJECT ELIGIBILITY CHART

Course	Physics	Chemistry	Math	Biology	Biotech
Engineering	✓	✓	✓		
Architecture	✓	✓	✓		
Pharmacy Engineering institutes	✓	✓	✓		
Pharmacy - others	✓	✓		✓	
Air force and Navy	✓		✓		
Civil Aviation	✓		✓		
Merchant Navy	✓	✓	✓		
Medical Field	✓	✓		✓	✓
Biotechnology –B.Tech*	✓	✓	✓		
Biotechnology – B.Sc.	✓	✓		✓	
Economics (Hons)			✓		
BCA			✓		
Veterinary Science	✓	✓		✓	
B.Com (Hons.)			✓		