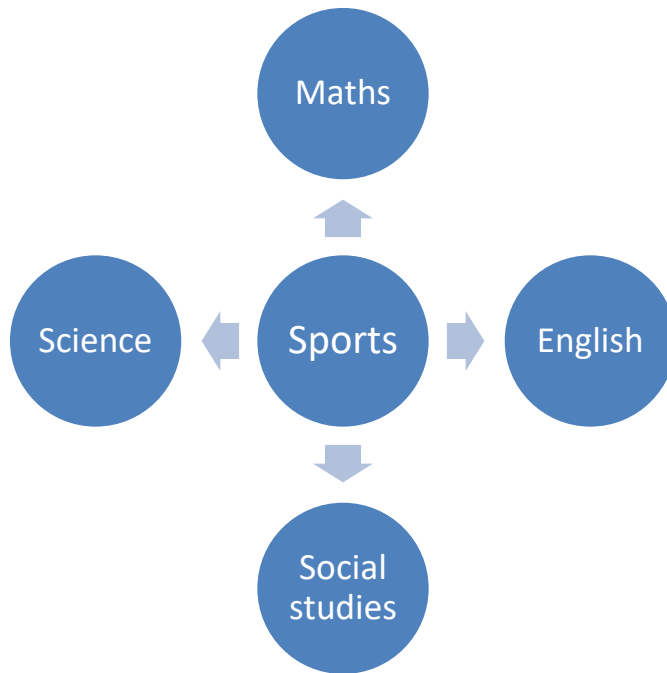


DAV Model School
Multidisciplinary Project
Sports



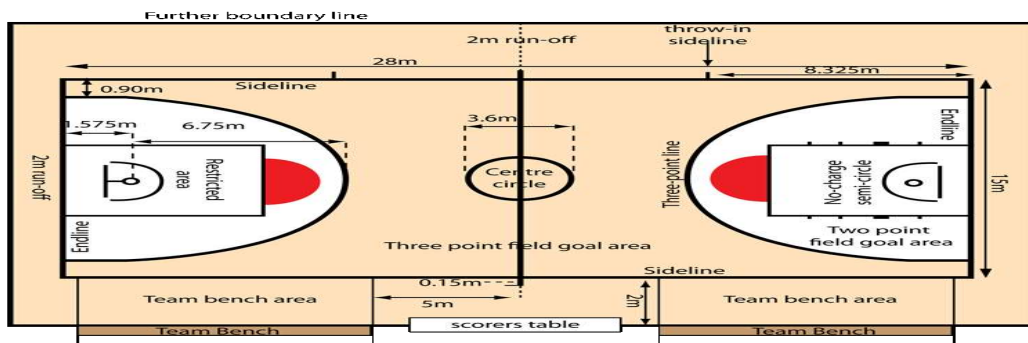
Class X

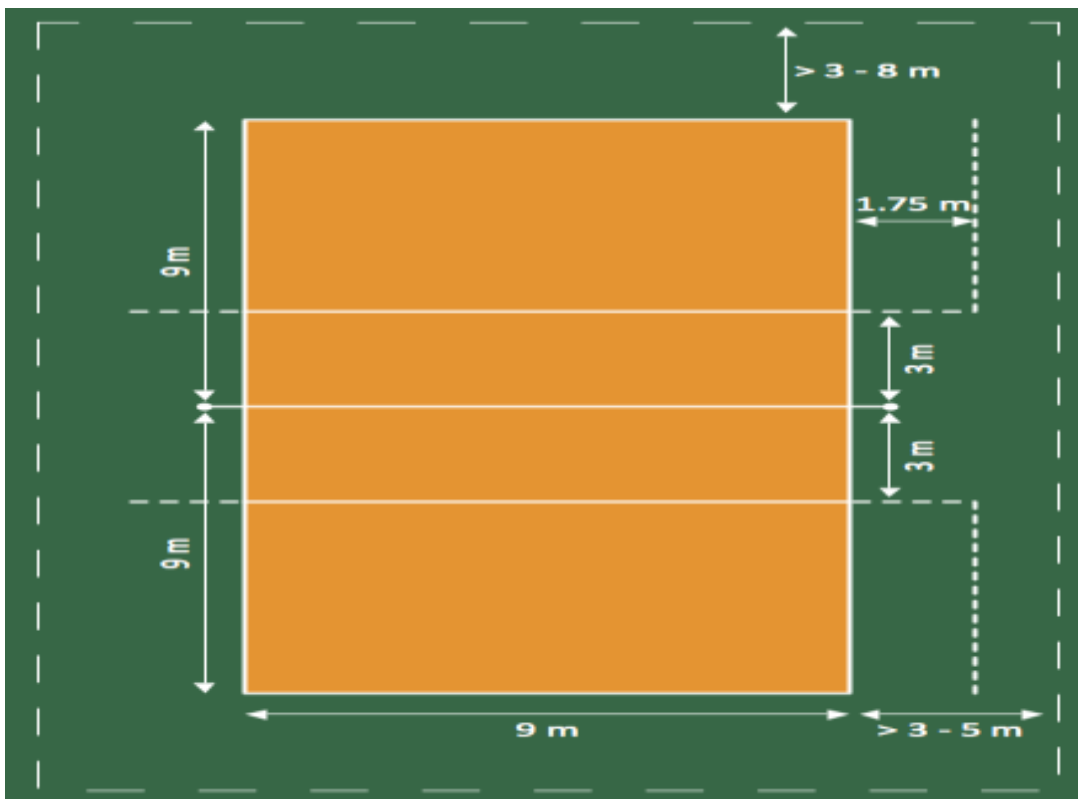
Sports occupy a vital role in our lives. It keeps us fit healthy and makes us active. Sports is one such activity which helps in maintaining a proper physique and positive mentality. Apart from keeping a healthy body and mind ,Sports also helps us in alerting our senses, keeps us aware and an un daunting personality and outlook on life. As there are endless importance of sports similarity other subjects like Mathematics, Science, Social studies, English, IT play a very important role in sports



Mathematics

Volleyball court and Basketball court with dimensions are given, choose any court



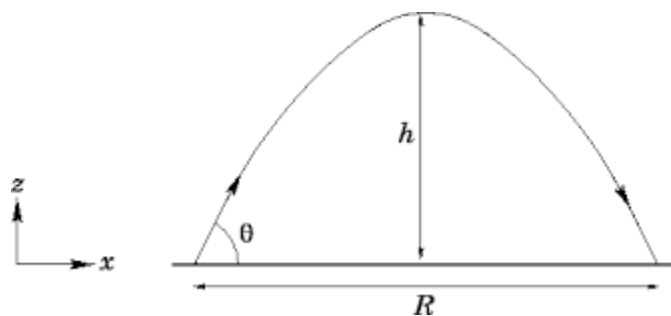


1. Find the area of all two dimensional figures seen in that court
2. Select your favorite player of volleyball or basketball game Find the number of matches played by him in 2010,2011,2012,2013,2014,2015,2016,2017,2018,2019 and plot the graph of that ordered pairs

Physics

Multidisciplinary project:

Projectile motion: kick a football and it will move in shape of projectile.



- Total Time of Flight(t)= $2u \sin\theta / g$
- Therefore, in a projectile motion the Horizontal Range is given by (R):
- Horizontal Range(R)= $u^2 \sin 2\theta / g$

- g is acceleration due to gravity i.e 9.8 m/s^2
- Final velocity i.e $v = \text{zero}$.
- Calculate time of flight of football and horizontal range i.e distance covered by football by this given information

Economics and Political Science

Theme: " Sports and Sustainability"

- Select one indoor and one out sport of your own choice. Relate those sports with sustainable development at micro and macro level that is at individual and country level and using pictures, newspaper cuttings and art integrated activities (collage, paintings and models) compile that project either in a scrapbook or in a file or in a handmade file. For example, discuss the impact of Boxing on the life of Mary Kom on her family income and also on the economy of the state she belongs to and of course on Indian economy.

Punjabi

ਪੰਜਾਬ ਦੇ ਪ੍ਰਮੁੱਖ ਖਿਡਾਰੀਆਂ ਬਾਰੇ ਮਾਡਲ, ਜਾਂ ਪ੍ਰੋਜੈਕਟ ਜਾਂ ਚਾਰਟ ਜਾਂ 3D Art ਜਾਂ ਉਨ੍ਹਾਂ ਦੀ Biography ਲਿਖਦੇ ਹੋਏ ਉਨ੍ਹਾਂ ਦੀ ਫੋਟੋ ਲਗਾਓ ਤੇ ਇਕ ਵੱਖਰੀ ਦਿਲ - ਖਿੱਚਵੀਂ (Attractive) ਫਾਈਲ ਬਣਾਓ।

IT

Write an article on "Sports – for healthier life style". (Use Libre writer software and explore the features)

Hindi

अंतर्विषय पर आधारित परियोजना कार्य: "खेल"
निम्न में से(कोई एक)---

- खेल के महत्त्व पर प्रकाश-- चित्र सहित
- पसंदीदा खेल के किसी खिलाड़ी का अभिनय-- विडियो रूप में
- पसंदीदा खेल को लेकर एक लघु कथा(कहानी) लिखें-- चित्र सहित ।
- पसंदीदा खेल के किसी खिलाड़ी की जीवनी लिखिए अथवा पी पी टी बनाइए।
- संसार में खेलों की शुरुआत कैसे हुई खेलों के इतिहास पर प्रकाश डालिए।लिखित/पीपीटी
- पसंदीदा खेल के इतिहास पर प्रकाश डालिए।
- 'खेल' विषय पर कविता वाचन या चित्र सहित प्रस्तुति---
1. पसंदीदा खेल के विषय में संपूर्ण जानकारी पीपीटी या लिखित रूप में चित्र सहित।

English

Draw a colorful poster depicting the message that sports are an integral part of a student's life.

Art integrated project

Mathematics

- Find the HCF of two numbers using Euclid division lemma by cutting and pasting papers
- Factorize a quadratic polynomial by activity method(cutting and pasting paper)
- Form a polynomial of degree 3 by activity method (cutting and pasting paper)

Economics and Political Science

Create PPT on power sharing and federalism

IT

Art Integration :

- Make an Artifact using waste material to promote Green Economy. Try to sell the Product to your family members and develop your Entrepreneurial skills
- Draw a chart on 4 R's and 1 U (Sustainable economy)
- Make a Poster on "Sports – for healthier life style" use any app to design poster

Hindi

निम्नलिखित तुकबंदियों का प्रयोग करते हुए संबंधित विषयों पर आकर्षक एवं रंगीन विज्ञापन तैयार कीजिए :-

- (I) " शारीरिक और मानसिक रूप से स्वस्थ करे योग
रोज करें प्रातः अगर रहना चाहते हो नीरोग ।"
- (II) " विश्व पर्यावरण दिवस पर यह शपथ खाएं
स्वयं और अपनों के जन्मदिवस पर एक पौधा अवश्य लगाएं

English

- 1: Make a collage on Nature, the greatest gift to man.
- 2: Make a PPT (10 slides) on the life and works of Robert Frost.