English

Portfolio

Project works

1. Book Review Project

   Choose any novel/short story from the library or NCERT recommended list.

   Write:

   Title, Author, Theme, Characters

   Summary in own words

   Personal opinion/reflection

   Add illustrations or creative cover design.

2. Biography / Personality Study

   Choose a famous personality (freedom fighter, scientist, author, sports person).

   Include:

   Life sketch

   Major achievements

   Inspiring qualities

   Students can make a timeline chart.

3 Travel Brochure (Art Integrated Project)

   Select any Indian state/UT.

   Write about:

   Tourist places

   Food, culture, language, festivals

   Special attractions

   Add pictures, drawings, or QR codes.

4. Poster Making + Slogan Writing

   Themes: Environment, Literacy, Cleanliness, Gender Equality, Unity in Diversity.

   Students prepare a poster with catchy slogans and a short write-up.

5. Short Film / Skit Script

   Write a short script on a social theme (e.g., “Say No to Bullying” / “Save Water”).

   Students can perform or submit a written script with dialogues.

Project File Format (General)

1. Cover Page – Title, Student’s Name, Class, Roll No, School, Session
2. Acknowledgement

3. Certificate (teacher's signature)
4. Introduction (what the project is about)
5. Main Content (as per chosen topic)
6. Pictures / Charts / Creative Work
7. Conclusion / Learning Outcome
8. Bibliography (books, websites, references used)

*Write in the A4 sheet and make a project file including all the above projects and submit.

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SCIENCE

Read chapter Gravitation
5 numericals from Motion, force and laws of motion
Make practical file (according to splitup)
Herberium
RSBVP PROJECT
Project file on tissues and mind maps of all chapters

SST

1. Explain the connection between climate change and poverty with reference to India.

2.How does poverty affect children in India? Discuss with examples.

3.Explain how poverty is both a cause and a consequence of environmental degradation.

4. Compare and contrast the economic and social dimensions of poverty.

5. How does the NREGA help in reducing poverty in India? Evaluate its success.

6. What is the full form of BPL?

7. Which organization in India measures poverty?

8.Define climate.

9.What is the main factor affecting the climate of a region?

10.Name two types of poverty as classified by sociologists.

11. Which state in India has the highest poverty ratio?

12. Explain the concept of 'vulnerable groups' in the context of poverty.

13. How does access to education affect poverty levels?

14. What role does the PDS (Public Distribution System) play in alleviating poverty?

15. Discuss the interrelationship between climate change and migration.

16. How is urban poverty different from rural poverty?

17. How does malnutrition relate to poverty in India?

18. What are the major sources of income for the poor in India?

19. Mention any three challenges faced in the implementation of anti-poverty programs

20. Explain the relationship between climate change and natural disasters.

ARTIFICIAL INTELLIGENCE

Complete below chapter in notes using SSM Material

AI Reflection and Ethics

Data Literacy

Math for AI

ICT

Entrepreneur

MATHEMATICS

1. Express 0.36 (repeating) in the form p/q.
2. Find the decimal expansion of 1/8.
3. Is √3 a rational number? Justify.
4. Write the coordinates of a point on the x-axis.
5. Write the coordinates of a point on the y-axis.
6. What is the degree of the polynomial 7x^3 + 4x^2 - 3?
7. Find the value of p(x) = 2x^2 - 3x + 4 at x = 2.
8. What is the remainder when x^3 + 2x^2 + 3 is divided by x - 1?
9. Write the Euclid's axiom which states that "Things equal to the same thing are equal to one another."
10. Write the Euclid's postulate about drawing a straight line from one point to another.
11. In the given figure, if two lines intersect at a point, what is the sum of vertically opposite angles?
12. If two parallel lines are cut by a transversal, what is the relationship between alternate interior

angles?
13. Write the mid-point formula of a line segment joining (x1, y1) and (x2, y2).
14. Write the coordinates of the origin.
15. State Pythagoras theorem.
16. Write the formula to find the distance between two points in coordinate geometry.
17. Define collinear points.
18. Write the coordinates of a point which is equidistant from axes.
19. Write the factorised form of x^2 - 25.
20. Find the value of 1/√7 correct up to 2 decimal places.
21. Write the coordinates of the point which divides the line segment joining (2, 3) and (4, 7) in ratio 1:1.
22. Write the coordinates of point A (2,0) and B(0,3). What is the line AB intersecting?
23. Write one Euclid's postulate related to circles.
24. If an angle of a triangle is equal to the sum of other two angles, name the type of triangle

25. What is the condition for a polynomial to be linear?
26. Write the value of (x+1)(x-1).
27. What is the sum of the angles of a triangle?
28. If a triangle has two equal sides, what is it called?
29. If p(x) = x^2 - 5x + 6, find p(1).
30. The decimal expansion of a rational number is always either ____ or ____ (Fill in the blank).

1. Express 0.777... in the form p/q.
2. Find the decimal expansion of 1/11.
3. Find the value of √(81 + 48√3).
4. Show that √5 is irrational.
5. Write the coordinates of the vertices of a square of side 2 units placed on axes.
6. Plot the points A(2, 3), B(-2, 3), C(-2, -3), D(2, -3). Name the quadrilateral formed.
7. Divide x^3 + 3x^2 - 4x + 5 by x - 2.
8. Find the remainder when x^4 + 3x^3 - x + 7 is divided by x + 1.
9. Factorise 2x^2 + 5x + 3.
10. Write all five Euclid's postulates.
11. Show that the sum of angles on a straight line is 180°.
12. Two parallel lines are cut by a transversal. If one angle is 75°, find all the remaining angles.
13. Find the distance between the points (3, -2) and (-1, -5).
14. Find the midpoint of the line joining (-2, 3) and (4, -1).
15. The points A, B, C are collinear. Show it using distance formula, where A(1,2), B(3,8), C(5,14).
16. Verify whether (3, -1) is a solution of 2x - y = 7.
17. Write the coordinates of the centroid of a triangle with vertices (0,0), (6,0), (0,6).
18. Find the value of k if (2, k) lies on the line 2x + 3y = 6.
19. In nABC, ∠A = 50°, ∠B = 60°, find ∠C.
20. Prove that an exterior angle of a triangle is equal to the sum of the interior opposite angles.
21. Find the coordinates of the point which divides the line segment joining A(1,2) and B(3,8) in the ratio 2:1.
22. Factorise x^2 + 6x + 8.
23. Find the distance of the point (0, 4) from the origin.
24. The diagonals of a rhombus intersect at right angles. Verify using coordinate geometry, if vertices are (1, 2), (3, 4), (5, 2), (3, 0).
25. In nABC, AB = AC and ∠B = 50°. Find ∠A and ∠C.
26. Solve graphically: x + y = 5 and x - y = 1.
27. Write the condition of collinearity of three points in coordinate geometry.
28. Write one axiom which cannot be proved using Euclid's geometry.
29. Write the coordinates of the centroid of the triangle with vertices (1, 1), (3, 5), (5, 7).
30. If the point (k, -1) lies on the line 2x - 3y = 5, find k.

1. Simplify: 1/(√5-2) + 1/(√5+2).
2. Show that 3√2 + 2√3 is irrational.
3. Divide x^3 - 2x^2 - x - 2 by x - 2.
4. If a polynomial p(x) is divided by (x – 2), remainder is -1. Find p(2).
5. Factorise 2x^3 + 3x^2 - 2x - 3.
6. Verify if points A(1,2), B(3,6), C(5,10) are collinear.
7. Find the coordinates of the point which divides the line joining A(2,3) and B(4,7) in the ratio 3:1.
8. Show that the diagonals of a rectangle are equal and bisect each other using coordinate geometry.
9. Find the distance between (2, -3) and (-4, 1).

10. In nABC, AB = AC. Prove that ∠B = ∠C.
11. In nPQR, ∠Q = ∠R. Show that PQ = PR.
12. In figure, lines AB and CD intersect at O. If ∠AOC = 40° and ∠BOC = 60°, find ∠AOD and ∠BOD.
13. The following quadrilateral has vertices A(1,2), B(3,6), C(5,4), D(3,0). Find the type of quadrilateral.
14. Construct a right triangle with base 6 cm and hypotenuse 10 cm. Verify using Pythagoras theorem.
15. Solve for x: (x + 2)(x - 3) = 0.
16. If p(x) = x^3 - 4x + 1, find p(-1).
17. In nABC, prove that the sum of the three angles is 180°.
18. If two sides of a triangle are equal, prove that the angles opposite to equal sides are equal.
19. Show that the diagonals of a square are equal and bisect each other at right angles.
20. Draw the graph of y = 2x + 1 and y = -x + 2. Find their point of intersection.

1. Express 0.00137 in the form p/q.
2. Show that √2 + √5 is irrational.
3. Using long division, find the decimal expansion of 17/19.
4. Divide x^3 - 3x^2 + 4x - 2 by x - 1.

5. If p(x) = x^3 - 6x^2 + 11x - 6, find all zeros of p(x).
6. Find the distance between A(2, -3) and B(-4, 1). Verify using distance formula.
7. Find the centroid of a triangle with vertices A(1,1), B(2,3), C(3,5).
8. Prove that vertically opposite angles are equal when two lines intersect.
9. In nXYZ, XY = XZ. Show that ∠Y = ∠Z and median from X is perpendicular to YZ.
10. Prove that in a right-angled triangle, square of hypotenuse = sum of squares of other two sides.

1. Show that √7 is irrational.
2. If p(x) = x^3 - 3x^2 + x + 1, find all zeros of p(x). Verify relationship between zeros and coefficients.
3. Draw the graph of 2x + y = 6 and x - y = 2. Shade the area bounded by the lines and coordinate axes.
4. Find the centroid of the triangle with vertices (2, 3), (4, -1), (-2, -3). Verify it divides medians in 2:1 ratio.
5. In nABC, D and E are points on AB and AC such that DE || BC. Prove that AD/AB = AE/AC.
6. The diagonals of a parallelogram bisect each other. Prove using coordinate geometry.
7. Prove that if a transversal intersects two parallel lines, then alternate interior angles are equal.
8. Construct a triangle with sides 5 cm, 6 cm, and 7 cm. Draw its incircle.
9. In nPQR, prove Pythagoras theorem using similarity.
10. The following quadrilateral has vertices A(1,1), B(7,3), C(5,8), D(-2,6). Show that it is a parallelogram.