

HARI VIDYA BHAWAN

HOLIDAY HOMEWORK (2021-22)

Subject-English

Class-IX

General Instructions:-

- Students you can do your holiday homework in A-4 size sheets or loose sheets whichever is available at home.
- Assessment will be based on following parameters:
 - Content, presentation, creativity, accuracy
- Insert all the sheets in a folder.
- Do Question 3 and 4 in your language notebook.

LITERATURE –

1. Read the following from :-

Moments-The Adventure of Toto

Iswaran the storyteller

2. Learn the following from:-

Beehive-Wind(Poem)

A road not taken(Poem)

The sound of Music (part-I and II)

The fun they had

Moments- The lost child

3. Write the character sketch of the following characters from the chapter “The sound of Music”:-

1. Evelyn Glennie

2. Bismillah Khan

GRAMMAR-

1. The traits of a musician are given in the box overleaf. Use these and write a short biography in about 100 -150 words. You may collect more information from the Internet, books in the library and other sources.

A. R. Rahman: Indian composer, singer, songwriter, music producer, musician and philanthropist; born in Chennai on

6 January 1967; graduated from Trinity College, Oxford University; famous in integrating Indian classical music with

electronic music, world music and traditional orchestral arrangements; recipient of the Padmashri and the Padma Vibhushan awards; two Oscars and a Golden Globe; a notable humanitarian and philanthropist; donates and raises money for a number of causes and charities.

2. During covid-19 many people like doctors, helpers etc. have helped all of us make a thank you note in the shape of a greeting card. Give your card a colourful book keep the following points in mind :

- How valuable the help was?
- Your feeling of gratitude.

3. Taking help from the information given below make a diary entry describing the decency and humane side displayed by a conductor in a DTC bus recently.

Hints: • Bus conductors • not particularly known for decency and decorum • most of them foul mouthed and arrogant • I was travelling from Old Delhi to Pitampura • conductor came • I had my ticket but my purse was not in my pocket • forgotten at home • conductor • simply smiled and paid from his own pocket, I thanked him • never seen such a fine specimen of humanity.

4. Write a descriptive paragraph in about 100-150 words, about the house of your dreams. You can invent your own details.

5. Design your own newspaper:

How to do The newspaper should have five sections

1. Facts and figures of English language
2. Creative Corner- Your classroom poetry or story
3. Quotes- By famous poets with their names

4. Entertainment

5. Games & Puzzle- based on tenses, verbs, prepositions or conjunctions.

(Any one) For example Snakes & Ladder on prepositions.

Where to do A3 Size sheets (5 pages)

Parameters for Assessment Quality of content, originality and presentation

AIL -(ART INTEGRATED LEARNING)ACTIVITY

(Do any two)

1. Make a short video of showing the forms of tenses with the help of a model.

2. Using the waste materials, Explain how the old school was way better than the new school as explained in the chapter ‘THE FUN THEY HAD’ and make a short video of it.

3. Role play –If you were the little child from the chapter ”THE LOST CHILD” how would you feel. Create a role play of that child and make a short video of it.

हरि विद्या भवन

कक्षा :- नौवी

विषय - हिंदी

सत्र :- 2021 – 22

ग्रीष्मावकाश गृहकार्य

(आवश्यक सूचना :- दिया हुआ प्रस्तुत कार्य अपनी हिंदी की पाठ्यपुस्तिका में कीजिए)

पुस्तक : स्पर्श (गद्य खंड)

पाठ :- 1 दुख का अधिकार

पाठ :- 2 एवरेस्टः मेरी शिखर यात्रा

(पद्य खंड)

पाठ :- रैदास के पद

पाठ :- रहीम के दोहे

प्रस्तुत पाठों के शब्दार्थ और प्रश्नोत्तर याद करें।

पुस्तक : संचयन

पाठ “गिल्लू” के प्रश्नोत्तर याद करें।

व्याकरण

प्र01) 20 श्रुतिसम भिन्नार्थक शब्द, 20 पर्यायवाची शब्द और 20 विलोम शब्द अपनी हिंदी की व्याकरण पाठ्यपुस्तिका में कीजिए।

प्र02) अनौपचारिक पत्र

(क) आपका मित्र विदेश जा रहा है। इस अवसर पर उससे शुभकामना पत्र लिखिए।

(ख) जन्मदिन पर अपने मित्र को निमंत्रित करते हुए पत्र लिखिए।

प्र03) अनुछेद लेखन

(क) जहाँ चाह वहाँ राह

संकेत - बिंदु :- इच्छाशक्ति - सफलता का अधिकार, लक्ष्य पहचानकर आगे बढ़ते रहना, जीवन के प्रति सकारात्मक दृष्टिकोण

(ख) सत्यमेव जयते

संकेत - बिंदु :- सत्य की पहचान, कुछ ऐतिहासिक उदाहरण, सत्य आचरण के उपाय

प्र04) संवाद लेखन

(क) फलवाले और महिला के बीच संवाद

(ख) बस कंडेक्टर और यात्री के बीच संवाद

क्रियाकलाप :- नारा लेखन

कोई पांच नारे शीट(एक शीट पर एक नारा) पर बनाकर फाइल फॉल्डर बनाएं।

कला समेकित शिक्षा क्रियाकलाप

विषय :- रहीम के दोहे

रहीम जी का जीवन परिचय या रहीम जी के कोई तीन दोहे अर्थ के साथ।

(विश्लेषण :- विद्यार्थियों ऊपर दिए हुए विषय पर आपको एक वीडियो बनानी है। जिसमे आप रहीम जी का जीवन परिचय बता सकते हो या फिर उनके तीन दोहे अर्थ के साथ बता सकते हो।)

HARI VIDYA BHAWAN

SESSION-2021-22

HOLIDAY HOMEWORK

SUBJECT-INFORMATION TECHNOLOGY

Class-IX

General Instructions:-

- Students you can do your holiday homework in A-4 size sheets or loose sheets whichever is available at home.
- Insert all the sheets in a folder.

1. Read the following:

Unit1 -Communication skills

Unit 2 -Self management skills

2. Learn all the worksheets of both the units.

3. Do the following activities-

- a) Draw a picture of CPU and label all its parts.
- b) Prepare a collage showing parts of computer.
- c) Prepare an advertisement on the topic “COMMUNICATION SKILLS” and write a meaningful information on it.

4. Make a project on any topic-

- a) Green skills
- b) social networking sites
- c) Importance of Internet

AIL -(ART INTEGRATED LEARNING)ACTIVITY

(Do any two)

1. On the Microsoft paint, draw the different objects related to self -management skills which is used in your day to day life.
2. Make a 3D object on any part of the computer and record the video of making it.
3. Make a simple power point on any topic of your choice.

HARI VIDYA BHAWAN
HOLIDAY HOMEWORK
SUBJECT – MATHEMATICS
CLASS – IX
SESSION - (2021-22)

Instruction: Do these practice Questions from (CH-1,2,3 & 4) in your fair notebook.

1. Are the following statements true or false? Give reasons for your answers.
 - (i) Every whole number is a natural number.
 - (ii) Every integer is a rational number.
2. Find five rational numbers between $\frac{1}{2}$ and $\frac{1}{3}$.
3. Locate $\sqrt{3}$ on the number line.
4. Show that $1.272727\dots$ can be expressed in the form p/q , where p and q are integers and $q \neq 0$.
5. Simplify the following expressions:
 - (i) $(5 + \sqrt{7})(2 + \sqrt{5})$
 - (ii) $(5 + \sqrt{5})(2 - \sqrt{5})$
6. Find the degree of each of the polynomials given below:
 - (i) $X^5 - x^4 + 3$
 - (ii) $2 - y^2 - y^3 + 2y^8$
7. Find the value of each of the following polynomials at the indicated value of variables:
 - (I) $q(y) = 3y^3 - 4y + \sqrt{11}$ at $y = 2$.
 - (II) $p(t) = 4t^4 + 5t^3 - t^2 + 6$ at $t = a$.
8. Divide $p(x)$ by $g(x)$, where $p(x) = x + 3x^2 - 1$ and $g(x) = 1 + x$.
9. Factorise $6x^2 + 17x + 5$ by splitting the middle term, and by using the Factor Theorem.
10. Write the following cubes in the expanded form:
 - (i) $(3a + 4b)^3$
 - (ii) $(5p - 3q)^3$
11. Factorise $8x^3 + 27y^3 + 36x^2y + 54xy^2$
12. Locate the points $(5, 0)$, $(0, 5)$, $(2, 5)$, $(5, 2)$, $(-3, 5)$, $(-3, -5)$, $(5, -3)$ and $(6, 1)$ in the Cartesian plane.
13. Write each of the following equations in the form $ax + by + c = 0$ and indicate the values of a , b and c in each case:
 - (i) $2x + 3y = 4.37$
 - (ii) $x - 4 = 3y$
14. Write each of the following as an equation in two variables:
 - (i) $x = -5$
 - (ii) $y = 2$
15. Find four different solutions of the equation $x + 2y = 6$.
16. Find two solutions for each of the following equations:
 - (i) $4x + 3y = 12$
 - (ii) $2x + 5y = 0$
17. Given the point $(1, 2)$, find the equation of a line on which it lies. How many such equations are there?
18. Draw the graph of $x + y = 7$.
19. Solve the equation $2x + 1 = x - 3$, and represent the solution(s) on
 - (i) the number line,
 - (ii) the Cartesian plane.
20. Fill in the blanks:
 - (i) The coordinates of the origin are _____.
 - (ii) coordinates of a point on the x-axis are of the form _____ and that of the point on the y-axis are _____.
 - (iii) The coordinates of a point are of the form $(+, +)$ in the _____, $(-, +)$ in the _____, $(-, -)$ in the _____ and $(+, -)$ in the _____, where $+$ denotes a positive real number and $-$ denotes a negative real number.
 - (iv) The horizontal line is called the _____, and the vertical line is called the _____.
 - (v) The coordinate axes divide the plane into _____ parts called _____.

21. See Figure 1 and complete the following statements:

- (i) The abscissa and the ordinate of the point B are and , respectively. Hence, the coordinates of B are (,).
- (ii) The x-coordinate and the y-coordinate of the point M are and , respectively. Hence, the coordinates of M are (,).
- (iii) The x-coordinate and the y-coordinate of the point L are and , respectively. Hence, the coordinates of L are (,).
- (iv) The x-coordinate and the y-coordinate of the point S are and , respectively. Hence, the coordinates of S are (,).

22. Write the coordinates of the points marked on the axes in given Figure 2.

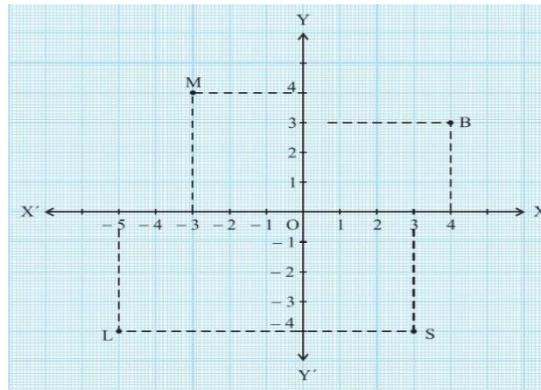


figure 1

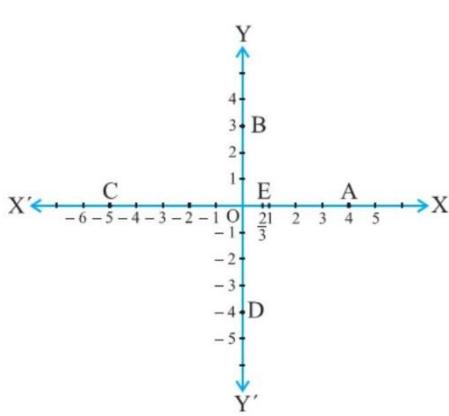
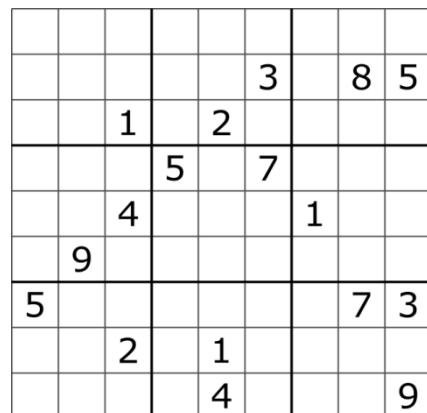
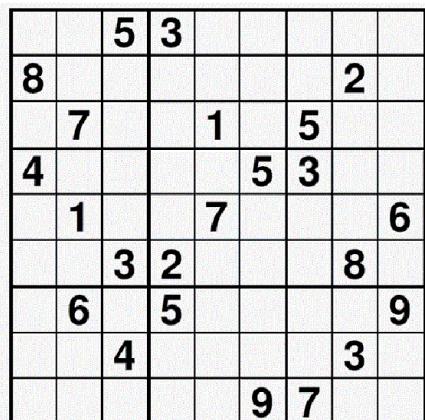


Figure 2

23. Solve the sudokus.



Activity Time

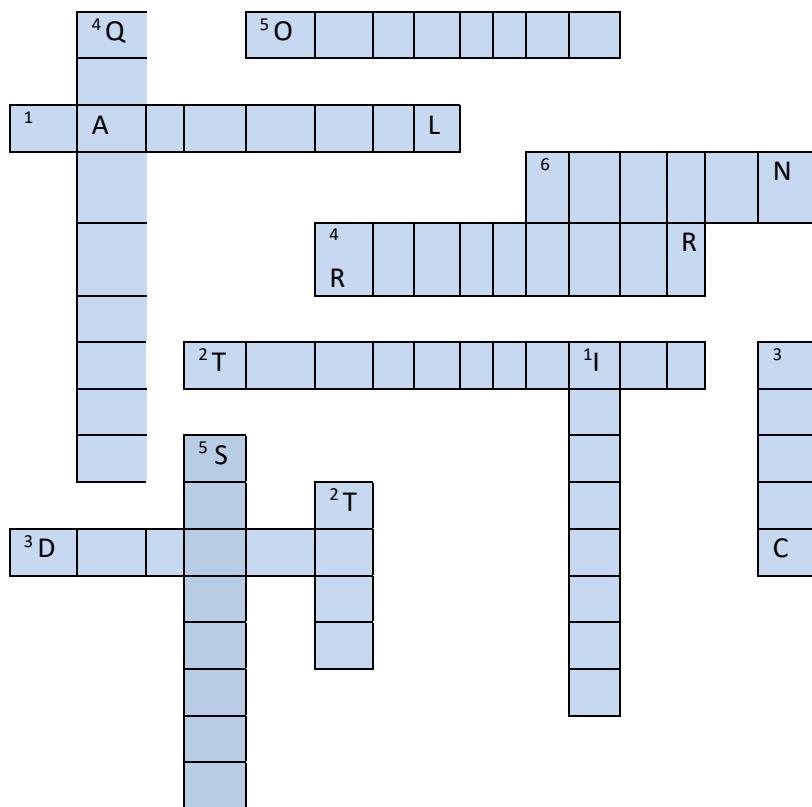
24. Complete the following activities in lab manual.

Activity 4-To verify the identity $a^3-b^3=(a+b)(a^2+ab+b^2)$.

Activity 9-To find the value of abscissa and ordinates of various points given in a Cartesian plane.

Activity 11-To obtain the mirror image of a given geometrical figure with respect to the x-axis and y- axis.

25. Solve the crossword puzzle.



| Across: | Down: |
|---|--|
| <ol style="list-style-type: none"> 1. A number that can be written in the form of p/q. 2. $7/8$ has _____ decimal expansion. 3. The highest power of the variable in a polynomial. 4. Dividend = (Divisor \times Quotient) + _____ 5. The y - coordinate is also called the _____. 6. The point of intersection of the axes. | <ol style="list-style-type: none"> 1. Number of rational numbers between two rational numbers. 2. In the polynomial $x^2 + 3x$, the expressions x^2 and $3x$ are called the _____ of the polynomial. 3. A polynomial of degree three. 4. The name of each part of the plane formed by these two lines. 5. The graph of every linear equation in two variables is a _____ line. |

AIL(Art integrated learning) Activity

(Do any two)

1. Make a presentation on Srinivasa Ramanujan. (**Activity**)
Watch movie Ramanujan (The Man who reshaped 20th Century Mathematics)
Movie link: <https://www.youtube.com/watch?v=-5L4Is-VNDI&t=1359s>
2. Make a working model on **ANGLE SUM PROPERTY OF TRIANGLE**.
Refer: <https://youtu.be/etXepqjVXQ8>
3. Make a working model on **CARTESIAN PLANE IN COORDINATE GEOMETRY**.
Refer: <https://youtu.be/ofdtTqm9QcY>

HARI VIDYA BHAWAN

Holiday Homework (2021-22)

Subject-Science

Class-IX

General Instructions:-

- Students, you can do your Holiday homework in any notebook, A-4 size sheets or loose sheets whichever is available at home.
- It is mandatory to prepare a Model on any given topic for AIL Project.
- Assessment will be based on the following parameters :
Content, Knowledge, presentation, creativity, accuracy
- Insert all the sheets in a folder (Folder or file cover can be hand made also).

1. PHYSICS♣

1. Prepare an investigatory project based on the study of corona virus that includes graphical study based on various factors in India. For example graph between total cases with date, total cases versus recovered, graph showing death rates in Delhi over total cases per day. The period should be any week for the month of May or June.

2. ACTIVITY PLAN FOR THE CHAPTER : MOTION

To understand that the displacement of an object is less than the distance travelled by the object.

A Students will go from one corner of their Living room to the opposite corner by different routes possible . They will measure the distance travelled with a measuring tape. Now students will measure the length of diagonal of the living room and note their observations. They can try same in other rooms also .

2. CHEMISTRY♣

1. How to prepare a homemade sanitizer. (Write the procedure and material required)
2. How far are non-alcoholic sanitizers effective against corona? Prepare a write up by taking any example available in the market. You have to write the following.
 - (a) Name of the sanitizer.
 - (b) Composition of the sanitizer.
 - (c) Mechanism of action.
 - (d) How far is it effective against corona?
3. Write ten examples of physical and chemical changes in your surroundings.

3. BIOLOGY♣

ACTIVITY : Carry out the following osmosis experiment. Take four peeled potato halves and scoop each one out to make potato cups. One of these potato cups should be made from a boiled potato. Put each potato cup in a bowl containing water. Now,

- (a) Keep cup A empty.
 - (b) Put one teaspoon sugar in cup B
 - (c) Put one teaspoon salt in cup C
 - (d) Put one teaspoon sugar in the boiled potato cup D
- Keep this for two hours. Then observe the four potato cups and answer the following.
- (i) Draw a table and write the change/no change, observed in each cup.
 - (ii) Explain why water gathers in the horizontal portion of B and C.
 - (iii) Why is potato A necessary/ for this experiment?
 - (iv) Explain why water does not gather in the hollowed out portions of A and D.

4. Art-Integrated Learning (AIL) Project♣

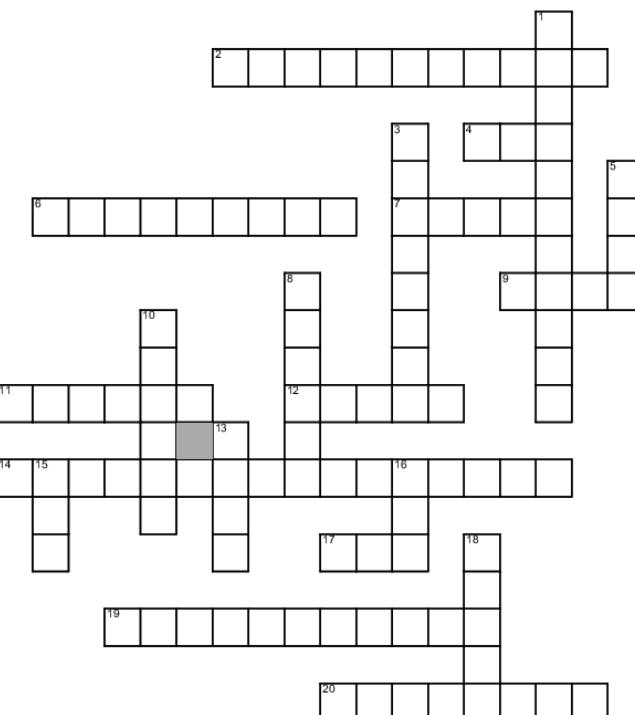
Prepare a model on anyone topic from the following. This project students can prepare in groups (maximum of 5 students).

1. Prepare a model of plant cell on the hard cover of used notebook or practical file using things readily available in your home like wool, thread, buttons etc.
2. Prepare a creative paper model for the description of Meiosis or Mitosis.
3. Prepare a working or non-working model on Physics by using waste materials.
4. Prepare a Model on structure of atom.
5. Prepare a animated video with your explanation of any topic from your NCERT book of Science.

5. SELF ASSESSMENT EDUCATIONAL GAME♣

Solve the crossword puzzle:

Air Pollution/Global Warming Crossword Puzzle



Across

2. Burning _____ is a cause of air pollution/global warming
4. What is the abbreviation of the government agency that protects the environment?
6. Air Pollution/Global Warming can cause ozone _____
7. 40% premature deaths caused by air pollution were in ____?
9. Can air pollution affect humans? True or False?
11. Air pollution can cause us to have an upper respiratory disease called _____
12. Air pollution kills over _____ million people each year
14. Methane, CO₂, Hydrogen, and Fluorine are what type of gasses
17. The government of the US and the world have enacted policies and created agencies to regulate the quality of the _____
19. Acid rain is an effect on the _____
20. A type of rain that is caused by air pollution

Down

1. This was enacted in 1963, by the 88th US Congress
3. Would visibility increase or decrease due to air pollution
5. Can Air pollution affect animals? True or False?
8. The Pollution Prevention Act, is an act that limits the amount of _____ that the industries are releasing into the environment
10. Air pollution can affect your _____ system
13. Chronic respiratory disease, lung cancer, heart disease, damage to the brain, and COPD are examples of _____ term effects
15. The Clean Air Act works alongside the experts at _____ to reduce and regulate emission of greenhouse gasses
16. China, along with India, contains over 50% of the world's sources of _____ pollution
18. Acid rain harms vegetation and _____ life?

6. Learning Work:-

Learn Chapter- 2 Is matter around us Pure?

Chapter- 5 The fundamental unit of life

HARI VIDYA BHAWAN

HOLIDAY HOMEWORK

SUBJECT- SOCIAL SCIENCE

SESSION – 2021 – 22

CLASS – IX

General Instructions: -

- Learn all questions and do in your notebook.
- Do Map Work in your notebook.

Short Questions

Q1. How did the use of modern farming methods prove beneficial for Indian farmers?

Q2. What are the disadvantages in using chemical fertilizers?

Q3. What do you know about India and her neighbours?

Q4. Mention three features of democracy.

Q5. Describe all the three estates into which French Society was divided in the 18th century.

Q6. What is meant by Green Revolution? What are its features?

Q7. What does ‘One person, one vote, one value’ mean? Name the countries where citizens do not enjoy right to vote.

Q8. What are the demerits of a democracy?

Q9. How does democracy improve the quality of decision making?

Long Questions

Q1. What is the aim of production? What are its factors?

Q2. Distinguish between traditional methods of farming and modern methods of farming.

Q3. India occupies an important strategic position in South Asia. Explain.

Q4. Give a brief description of the third estate.

Q5. What were the main features of the Constitution of 1791?

Q6. Distinguish between the democratic government and non- democratic government.

Q7. Describe the non- farm activities of production in village palampur.

MAP WORK (GEOGRAPHY) India Political Map

CH-1 (India-Size and Location) (Locate and Label)

- The state which shares its boundaries with China, Nepal, Bhutan, Pakistan.
- Tropic of Cancer
- Southern most point of India
- Latitude which divides India into two equal halves.
- The island groups of India lying in the Arabian Sea and the Bay of Bengal.

AIL (Art Integrated Learning) Activity

General Instructions: -

- Do any **ONE** topic.
- Make a **Short Video** on the topic.
- Prepare a **Handbook** on the topic (Min 10 pages)
- It should be hand written by the students themselves and use eco-friendly products without incurring too much expenditure.
- Project file should be decorative.
- You can use newspaper clippings, maps, diagrams and material from the web.
- The cover page should be written in bold letters with the Topic, Name of the Student, Class and Admission Number.
- You can choose any topic which is given below.

TOPICS OF THE PROJECT: -

1. Disaster Management

E.g.

- Earth Quake
- Thunderstorms
- Drought
- Flood
- Cyclones

2. Climate

3. Physical Features of India

4. Democratic Rights

5. State of India (Choose any State)

E.g., Assam, Sikkim, Meghalaya, Rajasthan, Himachal Pradesh, Madhya Pradesh, Gujarat etc.

Note:- To get some knowledge about activity, click on the given link :-

<https://youtu.be/LAs-09aEcXo>

<https://youtu.be/wQHJxgwv9L4>