

Name: _____

Worksheet B “Vyksa Hydraulic System”

Task: Read the text and answer the following questions:

1. Why is this system created? It was created for the work of the Batashevs' ironworks.
2. How many ponds did it include initially? It consisted of 8 ponds.
3. What is the importance of this system? It is a large technologically advanced and amazing energy and cooling complex.

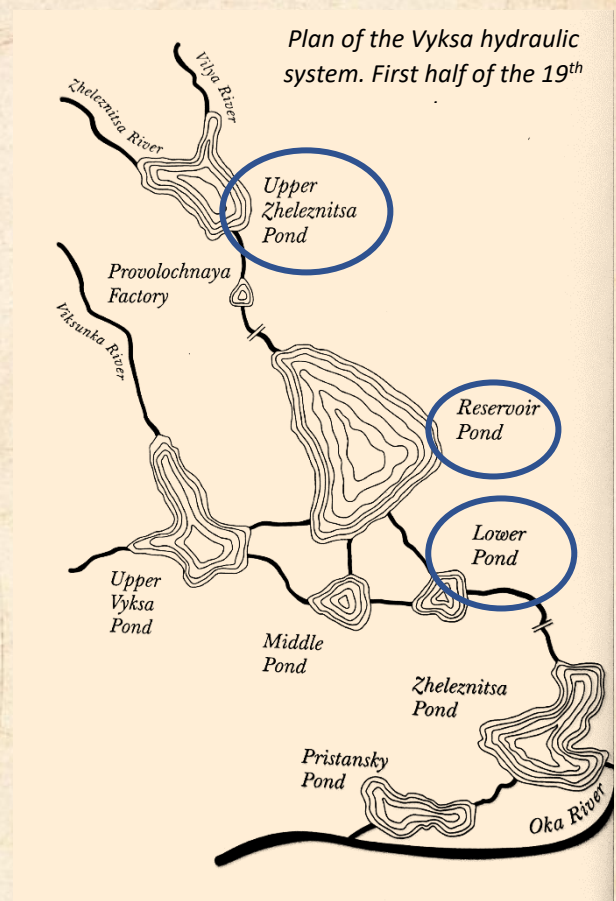
Vyksa Hydraulic System

A unique hydraulic system that involves a combination of ponds is perfected in Vyksa.

The Vyksa hydraulic system is created for the work of the Batashevs' ironworks. Initially it consists of 8 ponds and several dams (all hydrotechnical structures have been lost). It is a large technologically advanced and amazing energy and cooling complex.

Journalist and author P. Svinyin notes that “the Vyksa dams were the largest engineering structures of the time”.

Nevertheless, the Vyksa hydraulic system is still in use today for production and town needs. However, only 4 ponds are used: Upper Zheleznitsa Pond, Reservoir Pond, Upper Vyksa Pond, and Lower Pond.



4. Look at the layout and circle the names of the ponds still in use. Mark the name of the pond near you. Upper Vyksa Pond.

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Worksheet C “Production”

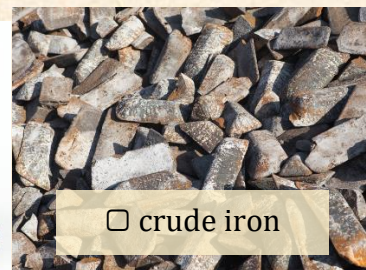
Task: After receiving royal permission, the first plant was built in Vyksa in **1766**. Use the book “Iron Logic of Russia” and find the page with this year to discover more about the first metal in Vyksa.

1. Write the name of the first plant which is located opposite the Batashevs’ house.



Upper Vyksa plant was the first plant in Vyksa.

2. Put a checkmark ✓ near the items that were used to strengthen the Black Sea Fleet



3. Look at the Batashevs’ house and match all metal elements made in Vyksa plants with names.

wrought balcony

statues

wrought porch

cannons



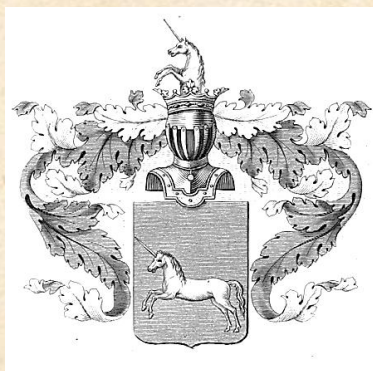
Name: _____

Worksheet A “The beginning of production”

*Task: Find QR codes. Firstly, listen to **Andrey Batashev’s story** and then to **Ivan Batashev’s story** and answer the questions:*

1. Why did they leave their previous ironworks?
 - a. The ironworks were not profitable.
 - ☒ b. There was an order to close all ironworks near Moscow.
2. What did they need to start building ironworks in Vyksa?
 - a. money
 - ☒ b. royal permission
 - c. builders
3. Why did they want to build the new ironworks there?
 - ☒ a. The potential customers were closer and it was easy to get iron ore there.
 - b. They had their land there.
4. What was the crucial role of the ironworks’ products?
 - a. They helped the citizens of the town as the iron became more accessible.
 - ☒ b. Cannons, cannonballs, and anchors helped our Black Sea Fleet win the Russo-Turkish War (1768–1774).
5. Who stayed in Vyksa and continued to develop ironworks?
 - ☒ a. Ivan Rodionovich Batashev
 - b. Andrew Rodionovich Batashev

In 1783, thanks to their services to the Fatherland, the brothers were ennobled. What is their coat of arms located near their statues?



✓ A silver unicorn



□ A lion, a warrior with a horse, and a six-pointed star

The useful words

Task: match words with their translation

флот
производить
печь
плотина
водный

пушка
рентабельный
увеличивать
железная руда
кованный

чугун
завод
герб
усиливать
пруд

металлургический завод
разрешение



1. a cannon
пушка



2. a coat of arms
герб



3. a crude iron
чугун



4. a dam
плотина



5. wrought
кованный



6. a fleet
флот



7. a furnace
печь



8. hydraulic
водный



9. to increase
увеличивать



10. iron ore
железная руда



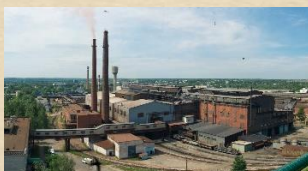
11. ironworks
металлургический завод



12. to manufacture
производить



13. permission
разрешение



14. a plant
завод



15. a pond
пруд



16. profitable
рентабельный



17. to strengthen
усиливать

The Batashevs' role

Task: read your worksheet and fill in the missing information

The Batashevs brothers got **royal permission** and started to build a plant in Vyksa because **the potential customers were closer and it was easy to get iron ore there**. Their plants became successful and the products even **helped our Black Sea Fleet win the Russo-Turkish War (1768–1774)**. For that the brothers were ennobled and got the coat of arms with **a silver unicorn**



The Batashevs' role

Task: read your worksheet and fill in the missing information

*For the work of the ironworks **the Vyksa hydraulic system** was created. It was an important **technologically advanced and amazing energy and cooling complex.***

*It consisted of **8 ponds** and several dams.*

*Now there are only **4 ponds***



The Batashevs' role

Task: read your worksheet and fill in the missing information

*The first ironworks was called **the Upper Vyksa plan**. It produced various products: **cannons, cannonballs, crude iron etc.** Cannons helped to strengthen the Black Sea Fleet. Metal elements were also used for decoration such as **wrought furnace doors, porches, balconies etc.***

