

Educational Area of Technology

Design and technology

Year 1–2

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1	<p>World of technology</p> <p>Elements of graphical science. Lines. Rules of line marking on the paper and cardboard. Development drawings of a rectangular shape. Manufacturing development drawings of a rectangular shape. Using the image schemes as steps for product manufacturing with the help of adults or independently. Features of construction materials (types of cardboard, paper, and threads). Manufacturing three-dimensional products with the elements of recycled materials. Safe work with tools and appliances. Presentation of own or collective activities with the help of adults. Estimated objects of work: Proposed conditions: plot-based and object-based appliques of paper, plasticine, natural and artificial materials; three-dimensional static models (figures) made of plasticine, polymer clay, or salt dough; three-dimensional scales of products made of artificial materials; modelling and manufacturing products of recycled materials; and manufacturing paper or cardboard development drawings of a rectangular shape.</p>
2	<p>World of crafts</p> <p>Performing simple technological operations of traditional and modern crafts with the help of adults or independently in creating and decorating simple products using the template and one's own design. Vytynanka paper-cutting technique. Distinguishing vytynanka among the other craft products. The sequence of operations for manufacturing a vytynanka using the template and one's own design. Proposed conditions: products with the elements of vytynanka, products of clay, threads, fabric, etc.</p>
3	<p>Everyday life</p> <p>Organizing one's own life. Solving practical household tasks. Meal culture. Table manners. Table setting. Organizing a workplace according to the set needs and tasks.</p>



Planning and executing the simplest work actions (repairing toys, books, taking care of plants, pets; cooking using recipes; keeping the clothes and shoes tidy).
Calculation of materials and expenses for the simplest tasks.
Estimated objects of work: table setting; simple dishes: sandwiches, tea, etc.; simple book and toy mending; taking care of plants and pets; keeping the clothes and shoes tidy, etc.

Mandatory academic results (based on the State Standard for primary education).

Pupil:

- with the help of adults or independently plans their own activities to manufacture a product, predicts the final result;
- reads and analyzes graphic images with the help of adults and uses them in the process
- with the help of adults or independently selects construction materials and technologies for manufacture of a product;
- models, constructs and manufactures a product from prefabricated elements with the help of adults; produces and decorates a product with the help of adults;
- evaluates and presents the results of their own or collective activities with the help of adults
- performs simple technological operations of traditional and modern crafts with the help of adults or independently;
- observes the process of making products by folk artists; creates a product with the help of adults or independently according to the sample or their own design, using the technology of traditional and modern crafts;
- with the help of adults calculates the estimated cost and the amount of materials for manufacture of a product;
- during the manufacture of products tries to use materials efficiently; with the help of adults prepares the remains for secondary processing;
- with the help of adults plans actions and performs them in their own life;
- performs practical tasks in everyday life; organizes workplace with the help of adults;
- adheres to safe methods of work when using tools and devices.

