



ADDITIONAL AND DIDACTIC GAME TECHNOLOGIES ON THE TOPIC OF LOCAL APPEARANCE

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Annotation.

Game technology on the subject of additional and local appearance of the science of projection drawing. We know that the science of drawing develops the spatial imagination and underlies drawing the whole being and things. At the same time, this science serves as a necessary science for all engineers and engineering staff.

Keywords.

Drawing, science, technology, spatial imagination, drawing, engineering, education

Didactic game technologies are used in the educational process in the form of didactic game lessons. In these lessons, students' learning process is coordinated through play activities. For this reason, lessons in which students' learning activities are combined with play activities are called didactic play lessons.

The following tasks are performed in human life through play activities:

- increased interest in study and work;
- acquires a culture of communicative communication;
- demonstrates ability, interest, knowledge and identity;
- helps to overcome various difficulties encountered in the process and to find the right content of skills;
- behaves in accordance with social norms;
- develops a culture of collective communication;
- positive qualities are formed.

Didactic game lessons can be divided into story-role games, creative games, business games, conferences, game exercises, depending on the combination of students' knowledge and play activities. The teacher-teacher must first prepare and conduct the students for individual (individual), then group games, and after the game is successful, prepare them for the mass game. Because students need to have the necessary knowledge, skills and abilities to actively participate in didactic game lessons, in addition, there should be cooperation and mutual support between the group [2].

Game technology on the subject of additional and local appearance of the science of projection drawing. We know that the science of drawing develops the spatial imagination and underlies drawing the whole being and things. At the same time, this science serves as a necessary science for all engineers and engineering staff.

It is natural to know the drawing themes in their drawing and understandable execution so that the detail item is different. Drawings that are done in an understandable way can help other drawers know what it is from the looks. And to know this, of course, you need to have drawing literacy.

If it is not possible to accurately depict any part of the surface of the workpiece in these six basic views, then that view of the workpiece is performed in a new additional plane that is not parallel to the main views and is called an additional view (Figure 1 A). The additional view is marked with a specific inscription on the drawing and the direction in which this part of the item is viewed. Such an image is drawn in the blank space of the drawing. If the narrow part of the surface of the object is limited, such an image is called a local view (views a and b in Figure 1). The local look should be as small as possible. If the part of the object is shown only on the contour and the surface part of the object behind it is not depicted, this image is also a local view (view b in Figure 1).

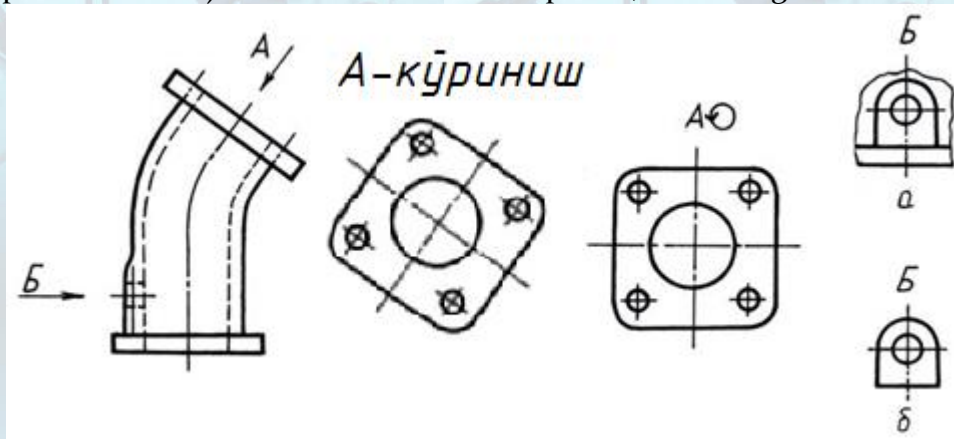
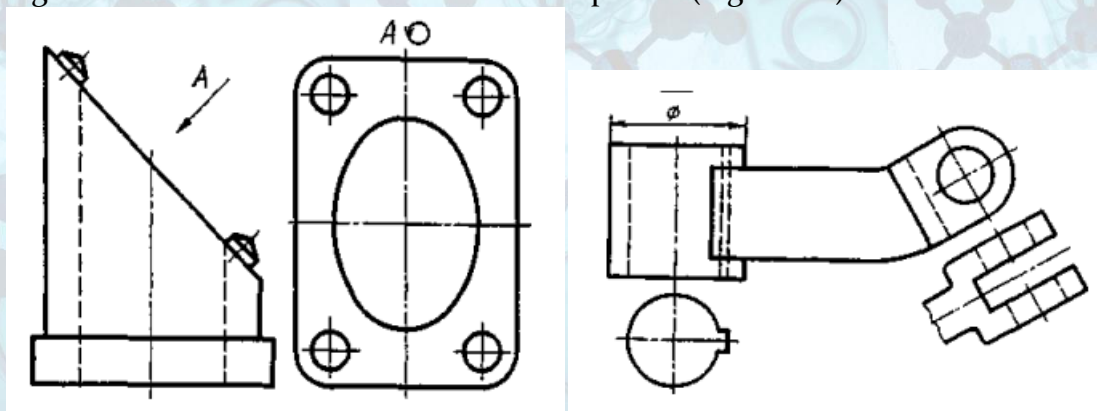


Figure 1

Additional and local views can be described by turning them into a comfortable position. But the accepted situation in the general appearance of the item should not change. In such cases, a sign indicating the deviation from the view should be placed (Figure 1-2).



In some cases, an additional view can also be described without a written direction (Figure 3).

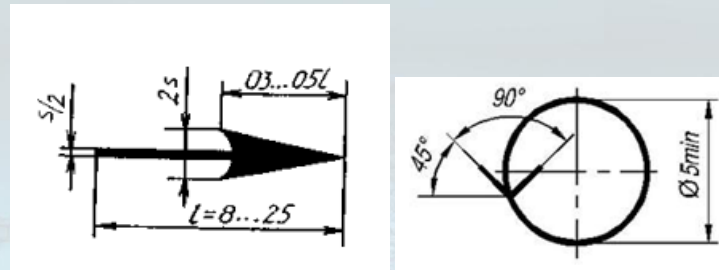


Figure 4

If the main views in the drawing are not positioned relative to the main view, that is, they should be provided with the necessary inscriptions and directions in the drawing (Figure 2). The shape and dimensions of the bend and direction are shown in Figure 4. In the drawings, various symbols are used to make the views as small as possible. For example, if the spindle of the valve is drawn in a single main view, and the cylinders are marked with the diameter symbol "v", the square

prism "□", the threaded part "M", the spherical part "Sphere", the drawing can be easily read. Using a simplified drawing of a simple shape and its symbols, one can imagine that there are several invisible cylinders, cones, prisms, and pyramids (Figure 5).

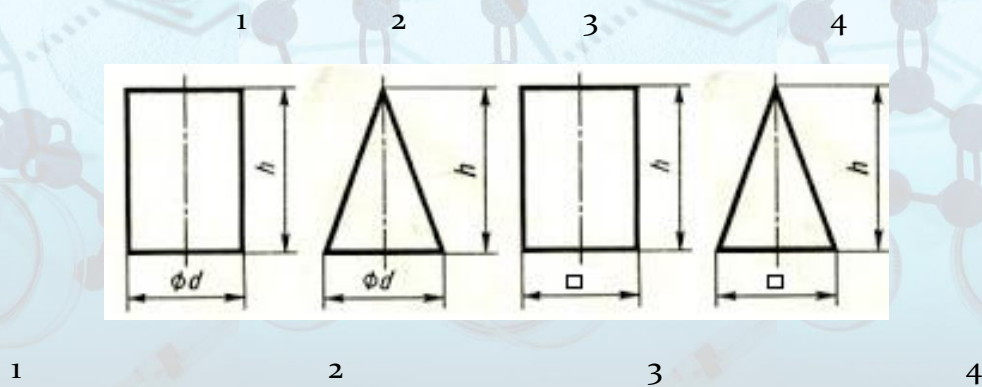
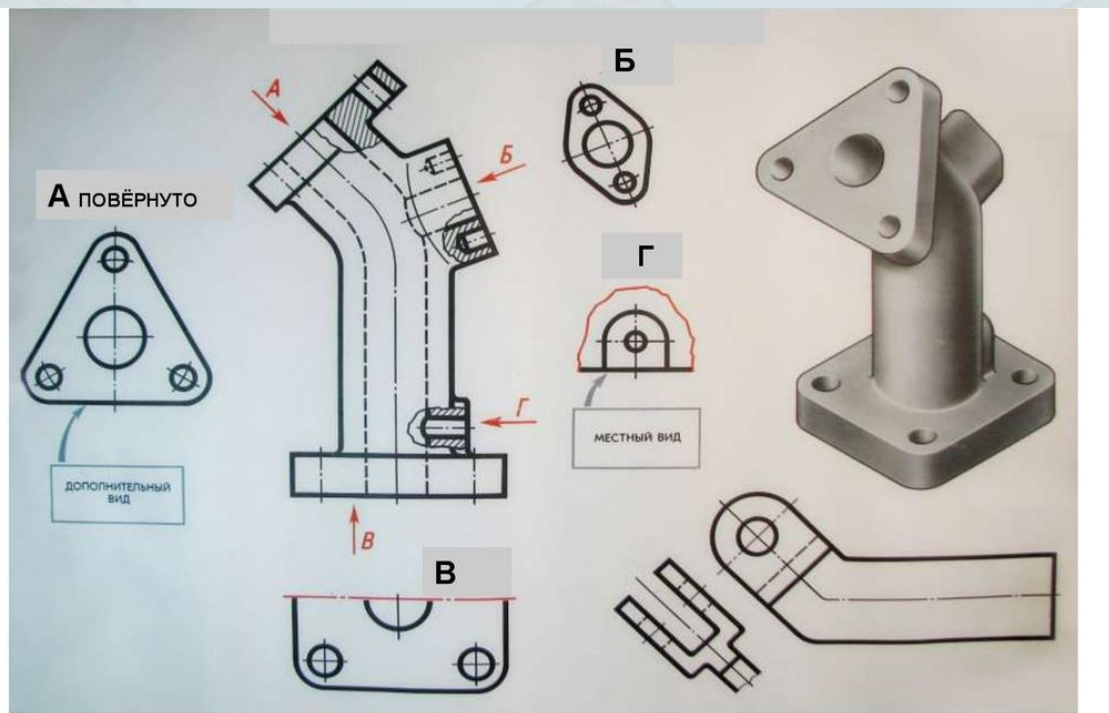


Figure 5

Prerequisite: Fill in the table with the name, depending on the size of the shapes shown in the figure.



A	B	V	G

Additional and local views are shown in the drawing, and fill in the table by writing their names.

Instead of summarizing, the students' spatial imagination will increase through the simplification and reading of the drawing if the topics of additional and local views are done in practical exercises.

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