MATH

Algebra

Year 7

(70 hrs, 2 hrs per week, reserve – 12 hrs)

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Expected results

Pupil:

- **solves tasks on:** calculation of expressions with variables; bringing a monomial to standard expression; transformation of a sum of a monomial and polynome, sums, differences, and multiplying of two polynomes into a polynome; dividing a polynome into multipliers by factoring out, by grouping, using shortened multiplying formulas and using several means; using the indicated transformation in the process of solving of equations, and proving of arguments;
- **solves tasks on:** finding the area of defining a function; finding the value of function by the provided argument; building a graph of a linear function; finding the function value

using the function graph for the provided argument value and vice versa; defining separate features of a function by its graph (positive quantities, negative quantities, and zeros);

- **makes up and solves tasks on**: direct proportions from life situations; building graphs in modelling real processes using a linear function, etc.

Geometry

Year 7

(70 hrs, 2 hrs per week, reserve – 20 hrs)

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	Circle within a triangle

Expected results

Pupil:

- **classifies:** angles (acute, right, obtuse, and flat); triangles classification by sides and angles;
- **measures and calculates:** the length of a fragment, angle degree, using the features of measurement; distance from a dot to a line;
- **depicts and finds on the images** geometric figures indicated in the content;
- **uses** the learned definitions and features to solve tasks;
- **uses practical tasks on**: finding the distance to a remote dot; defining equidistance of objects on the Earth surface; using the triangle strength in construction, etc.