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## MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)


## Authurized by the Minister of Eduvation



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 Rainsiuth
## GENERAL DIRECTIONS.

The pupils are to be taught to rely solely upon the judgment of the eye in estimating form, distance, and proportion. In the earlier stages guide-lines and points are given, which afford sufficient aid for copying the examples, and render the use of rulers or mechanical aid unnecessary. An intelligent use of the exercises suggested, will rapidly develop the pupils' perception, accuracy, and memory, and give facility and power in free-hand drawing.

It is essential, however, that the teacher should have the means of testing the correctness of the drawings and of proving to his pupils the justice of his criticism; a pair of compasses, and a rule divided into inches and fractional parts will suffice for the purpose, and these should always be at hand.

The book should not be turned while the pupils are drawing, and they ought to sit upright, facing the desk.

A tolerably soft pencil should be used (H. B. is the best), cut to a long, sharp point. It is impossible to make a good clear drawing with a blunt pencil.

The left side of a figure should usually be drawn first. It will generally be advisable to begin by making a slight sketch in faint lines; when the outline appears to be correct, draw it firmly with a distinct but not a black line, and avoid pressing the point of the pencil heavily upon the paper.

Hold the pencil loosely and easily, not too near the point. In light sketching of curves it may be held two or three inches from the point. A pencil less than two inches long should be discarded, or used only with a holder.

The teacher will, of course, forbid the pupils to wet the point of the pencii.
India rubber for erasing should be used as sparingly as possible, and in the preliminary exercises on straight lines it will not be required at all.

## BOOK NO. 2.

In Book I. the pupils have been taught by progressive lessons the use of the pencil, and have had some practice in the drawing and arrangement of lines, the dividing of lines, and the judgment of distances and spaces upon a flat surface.

In Bonk II. the pupils are required to attempt what is one of the main uses of drawing, namely, the rapresentation of solid objects upon a flat surface by means of lines.

For this furpose models have been prepared from which the pupils are to draw. In choosing these models care has been taken to select forms which will present a similar outline from all parts of the class-room, and of which the simple geometric outline, without shading or perspective, will convey an idea of the form.

Such solid forms as cubes or prisms, though apparently simple, are unsuitable for the present purpose, as their representation, when seen from more than one point of view, as they must be by a number of pupils, involves difficulties of perspective which we have not yet considered.

Simple cylindrical or conical forms are also unsuitable for the first models, as: the straight lines by which the outline must be represented do not convey the idea of roturdity. For instance the geometric outline of the side of a cylinder, without perspective or shading, is a simple parallelogram, and is precisely the same as that of a square block, or prism, of similar height and width.

Simple vase-forms are best to begin with. The models, which form part of this course of drawing and which cannot be dispensed with if it is to be of any real value, serve: first to teach the idea of representing solid form by outline; secondly, togive instruction in various curves; and thirdly, to store the memory of the pupil with conceptions of graceful form.

The first model is in outline a simple reverse segmental curve, but the others are taken or. adapted from the antique.

The mind of the pupil does not at first readily ":sp the idea of representing form by outline. In a vase, for instance, what appears to the cye is the vase itself, round and of whatever colour it may be, and not a space on flat paper surrounded by a line.

To overcome this difficulty we let the pupil copy the outline of the vase before drawing from the object itself. The pupils then see that the outline does truly suggest and represent the vase.

Still further to eimplify the mental process and to teach the pupi! how tu see and what to look for in the outine, the first step of all is to draw the curve which forms one side of the vase, analysing its proportions, and observing its relation to and variation from a vertical straight line, which straight line may afterwards be used as a construction line in drawing the side of the vase.

The steps to be followed in drawing each of these models will, therefore, be :-
First. Analysis and drawing of the kind of curve which enters into the outline of the vase.
Second. Drawing outline of one side of the vase,
Third. Drawing the whole outline from the flat copy in the book, comparing it with the model while drawing.

Fourth. Drawing the outline from the model.
Fifth. Drawing the outline from memory,
Interspersed with the lessons upon object drawing is a continuation of exercises in drawing from the flat copy. Some of these are ornamental forms which the pupils may be asked to draw again from memory. Others are outlines of familiar objects, and the pupils should be encouraged it from memory.

In drawing from the models the teacher should carefully observe the work and give marks for correctness in:-
x. General proportion of width to height.
2. Relative height of parts.
3. Relative width of parts.
4. Drawing of outline, including quality of line as well as truth and beauty of contour.

Figs. I and 2.-Exercises in reverse curves composed of portions of the circumference of a circle. The faint lines are given as guide or construction lines. Draw each part of the curve first in faint and then with firm line.


I


2

Reverse curves arranged to form a pattern. Observe that the continuation of each curve forms a quarter of a circle. Draw the firures on construction lines in square to right, first in faint line, and when correct, in firm line.


Place the vase, Model No. I, before the class and compare with it the outline given below.

Observe that the outline of each side is a reverse curve, the upper part being half the length of the lower part, and that each portion is part of the circum. ference of a circle.

Copy on guide lines given the curves forming the sides of the vase, then draw the whole outline on construction lines to right.


The line joining the two ends of a simple curve is called the base of the curve.

The Altitude, or height of a curve, is its greatest deviation from the base. Compicte the Border. - Sketch in faint line and finish with firm line.

outline
being rcim. draw

Complete the sletch of ornament in faint line and then trace the whole firmly.

Draw the ernament aceain below twice ; first on construction lines given. and then upon construction lines similarly placed by the pupil.



Place Model No. I before the class and point out proportions.
Let the pupils draw it upon guide lines given below.
Begin by trisecting the vertical line-bisect the upper part. Draw faint horizontal lines across point of division, and on these lines place points indicating the altitude of the different curves. Then draw the outline lightly, first the left, then the right, side. See that the curvature is true and that the two sides of the vase are alike. Finish in firm line, adding the horizontal lines which represent the mouldings.


Model No. I, from the vase.


Draw the vase again from memory on slates or practice-paper, comparing afterwards with the model.
raw faint ints indi, first the o sides of es which

An Ellipse.-Hold up a hoop before the class. Seci sidewise it is a circle, seen edgewise it appears to be a straight line. In turning it from sidewise to edgewise the circular form appears to become flattened, and is called an ellipse, or is said to be elliptical. Different forms and positions of ellipses are shown and are to be carefully copied upon the diameters and guide-lines given. For practice or review let the pupils draw ellipses, more or less flattened and in different positions, giving their own construction lines.


The peach and lemon are examples from nature of elliptical form ; draw them on guide lines to right.

Place vase, model No. 2, before the class and compare with it the outhe fiven below-observe the peculiarity of the lower curve, the widest part and greatest curvatures being at the upper end.

Copy the cu:ves of each side of the vase, on gruide lines given, and then draw the whole outline on construction lines to right.


Continue and complete the border, first placing vertical construction lines.


1e outline part and hen draw

lines.


An oval is a plane figure, the outline of which is the shape of an egg, one end larger than the other, it thus differs in form from an ellipse, which has both ends alike.

The altitude of a circular or elliptical curve, represented by a line perpendicular to the base drawn from it to the highest part of the curve, is whe middle of the curve.

The altit de of an oval curve will be on one side of the middle of the curve.
Draw in: various oval forms . complete and repeat them by the aid of suide lines given.


Let the pupils inake drawings at home from eggs or other oval forms.


The pear is given as an example of an irreg. ular oval.

Draw it on oblique axis, or construction line, given. Sketch the oval in faint lines; then draw the pear with a firm line. Add stalk and eye.

Draw vase from the model (No. 2) of size indicated by construction lines ; on each side of centre draw guide lines for outline of side at a distance from each other equal to the width of top and bottom of vase. Observe that the neck is one-fourth of the whole height, that the lower curve is part of an oval, and that its altitude, or greatest deviation from the vertical line which forms its base, is just about the middle of the vasc.


Complete drawings of ornament ; first the right side and then the left, then draw the whole ornament on guide lines to right.



Draw vase here from model No. 2.



Place model No. 3 before the class and compare with it outline below. Proceed as before, copying the curvature of sides, then draw whole outline on construction lines to right.


In drawing the jar begin by lightly sketching the oval which governs the form.


Draw glass and egg cup twice-begin by completing construction lines, then sketch the oval forms.

erns the


Draw vase No. 2 from the model on the opposite page, placing construction lines as in previous lesson. The truth of outline will depend upon the width of top being in proportion to the height.

Complete sketches of ornaments and trace the whole in firm line.

struction width of

Copy the ornaments again in squares below. First draw construction lines, and then lightly sketch the c. rine.


Draw vase here from Model No. 3 .


Draw one of the ornaments smaller


Water Bottle. (Model No.4.) Place the model before the class. Explain by reference to spherical objects the terms sphere and spherical, and show that the outline of a sphere is a circle. The lower part of the bottle being spherical the outline will be circular.

Copy the outline of each side and then the whole.


Examples of Greek mouldings-the first is the ovolo or egg and dart mould. ing. Draw them on opposite page, the progressive steps being indicated in the copy.


Explain low that rical the
mould. in the

Draw upon this page, enlarged to size indicated by construction lines, the ornamental forms given on pages 5 and 10 .


1


I7


A leat of clover and enlarged drawings of the wild mustard and potato flowers are given as examples respectively of trefoil, quatrefoil and cinque foil, or three-leaved, four-leaved and five-leaved forms.

In drawing these examples carefully observe the construction lines. Divide each ide of the circumference into three parts for the trefoil and into five parts for the five pi nted Sower. Sketch first in faint line.


13


Repeat Trefoil.
Draw water-bottle from Model No. 4 on construction lines to right.



Place Model No. 5, taken from a Greek vase, before the class and compare with it the outline below. Obseive proportions and curvature.

A sketch outline is given of one side. Complete the sketch and draw the whole in firm line. Then draw the whole vase on vertical construction line to right.


Draw the spoon enlarged as indicated by construction lines. Observe the oval form in the bowl.


1 compare draw the on line to
rve the

The horse-chestnut gives an example of a compound leaf with seven leaflets tion lines. Complete the unfinished sketch in faint line and then trace it in firm line, adding the veins. Draw the whole twice below on guide lines given.


Complete unfinished sketch of example and trace the whole in firm line. Then draw it in full on guide lines on the opposite page.


A Fret Border.-Suitable for tiles or oil-cloth. The key to its construction will be found in the upright and diagonal squares. One diagonal being bisected and the other trisected.

m line.



Model No. 5.- $\Lambda$ Greek vase. Draw it from the model of height indicated. Trisect the vertical lines to find position of principal horizontal lines.


Place Model No. 6 before the class and compare with it the outline given below. Observe peculiarities of curvature and proportion, and draw outlines of sides. Then draw the whole on construction lines to right.


Carved mouldings from the antique. Begin by placing vertical lines.

ine given atlines of

Complete sketches of figures and then trace in firm line. Repeat upon opposite page.

11



Draw vase from Model No. 6 on centre line, of height indicated.


In the circle draw one of the figures from page $\mathbf{1 8}$.


Draw the glass again twice, enlarged. In the last drawing all the

$29$


Copy the figures on construction lines.

## EXAMINATION AND REVIEW

The drawings of the pupils during the term will afford the best general test of their progress.
In further examination upon special points the purposes for which the various exercises have been given must be considered. Nany of the earlier examples are simply for practice in drawing and dividing lines. Others, especially the ormamental forms, it is desirable to repeat in order that they may be committed to memory.

In examination and review exercises it is essential that no ruler or mechanical aid should be allowed.

The following problems suggest some of the points upon which it may be desirable to test the comprehension and attainments of the pupils :-

1. Draw parallel straight lines as may be directed-horizontal, vertical, or oblique.
2. Divide these lines into $2,3,4$, or 5 equal parts.
3. Draw a semi-circle, or arc of a circle, and divide it into a given number of equal parts.
4. Draw a square. Inscribe a circle within it, and describe a circle about it.
5. Within a circle draw an octagon, or a hexagon.
6. Draw and describe a reverse curve. Draw parallel reverse curves.
7. Draw an oval and ellipse and point out the difference between these figures.
8. Draw some objects of oval and elliptical form.
9. Draw a reverse curve, one part of which shall be an arc of a circle, and the other, part of an oval.
10. Draw, within a given short time, one or more of the vase forms from the model.
11. Copy, within a given short time, one or more of the ornamental forms in the book.
12. Draw from memory any of the models, or the ornamental forms which have been drawn often enough to impress them upon the memory.

In drawing from memory the example should be shown to the pupils so as to be clearly identified, and then put out of sight.

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In the pursuit of almost every mechanical calling, and of many others, Drawing provides a means of expressing form better than can be done by the mere use of words. It is with this application of it, in elementary education, that we are chiefly concerned. The limited time that can be given to Drawing in the schools makes it imperative
that out of its boundless field of study, such portions should be selected as will be most useful to the majority of the pupils.
The following objects are deemed of primary importance:-

1. To train the eye to the accurate perception of form, size and proportion, and to exactness in the measurement of distances and angles.
2. To train the hand to freedom and rapidity of execution, and to readiness of expression.
3. To train the memory to accurate recollection of the forms and arrangements of objects.
4. To cultivate and refine the taste by the study, delineation and recolilection of beautifut forms.

These objects are sought to be attained by instruction in :-
I. Freehand drawing of lines, and figures
from the flat.
2. Freehand drawing of solid objects.
3. Constructive drawing.
4. Memory drawing.
5. Elementary perspective.

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