## The following are the characters in question:

- 1. Aspect or Lustre.
- 2. Colour.
- 3. Streak.
- 4. Form.
- 5. Structure.
- 6. Hardness.
- 7. Specific Gravity.
- 8. Relative Malleability.
- 9. Magnetism.
- 10. Taste, &c.

1. Aspect or Lustre.—We have here to consider, first: the kind: and, secondly, the degree or intensity of the lustre, as possessed by the mineral under examination. The kind of lustre may be either metallic, as that of a piece of copper, silver, &c.; or sub-metallic, as that of most kinds of anthracite coal; or non-metallic, as that of stones in general. Of the non-metallic lustre there are several varieties, as, more especially: the vitreous or glassy lustre-example: rockcrystal; the resinous lustre—ex.: native sulphur; the pearly lustre ex.: tale; the silky lustre (usually accompanying a fibrous structure)-ex.; fibrous gypsum; the stony aspect; the earthy aspect, &c. These terms sufficiently explain themselves. Occasionally, two kinds of non-metallic lustre are simultaneously present, as in obsidian, which exhibits a "resino-vitreous" aspect; and the lustre in some zeolites is pearly within, and vitreous externally. In mica, and some few other minerals, there is frequently a pseudo-metallic lustre. This may be distinguished from the metallic lustre properly so-called, by being accompanied by a degree of translucency, or by the powder of the mineral being white or light-colored: minerals of a true metallic aspect being always opaque, and their powder being always black or dark-colore So far as regards the metallic and the nonmetallic lustres, there are very few minerals which exhibit (in their different varieties) more than one kind. Thus, galena, the common ore of lead, copper pyrites, &c., always present a metallic lustre; whilst, on the other hand, quartz, feldspar, calc-spar, gypsum, &c., are never found otherwise than with a non-metallic aspect. Hence, by means of this easily-recognized character, we may divide all minerals into two broad groups; and thus, if we pick up a specimen