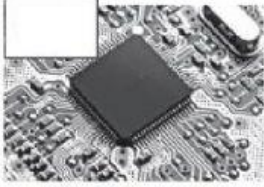


Rajah di bawah menunjukkan barangan yang dibuat daripada kaca dan seramik.  
The diagram below shows items made from glass and ceramic.

|                      |                                                                                   |                      |                                                                                   |                      |                                                                                    |                      |                                                                                     |
|----------------------|-----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|
| <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |  |
|                      | Botol/Bottle                                                                      |                      | Pasu/Vase                                                                         |                      | Atap rumah/Roof tiles                                                              |                      | Tabung uji/Test tube                                                                |
| <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |  | <input type="text"/> |  |
|                      | Mikro cip komputer<br>Computer microchip                                          |                      | Cermin mata<br>Spectacles                                                         |                      | Gigi palsu<br>Dentures                                                             |                      | Lampu elektrik<br>Electric bulb                                                     |

- 1 Tuliskan barangan kaca 'K' atau seramik 'S' dalam petak pada rajah di atas. TP1  
Write glass 'G' or ceramic 'C' items in the boxes on the diagram above.

- 2 Kaca dan seramik mengandungi sebatian silikon. Lengkapkan jadual tentang kaca dan seramik.  
The glass and ceramic contain silicon compounds. Complete the table about glass and ceramic. TP1

|                        |                                                              |                   |                                                   |
|------------------------|--------------------------------------------------------------|-------------------|---------------------------------------------------|
| Aluminium<br>Aluminium | Pasir<br>Sand                                                | Oksigen<br>Oxygen | Silikon<br>Silicon                                |
| Tanah liat<br>Clay     | Silikat (aluminium silikat)<br>Silicate (aluminium silicate) |                   | Silika/Silikon dioksida<br>Silica/Silicon dioxide |



Video

| Jenis bahan<br>Types of substance | Sumber<br>Source | Sebatian silikon<br>Silicon compound | Unsur-unsur<br>Elements |
|-----------------------------------|------------------|--------------------------------------|-------------------------|
| (a) Kaca<br>Glass                 |                  |                                      |                         |
| (b) Seramik<br>Ceramic            |                  |                                      |                         |

- 3 Nyatakan jenis kaca./State the types of glass. TP1

|                                    |                            |                                            |                                        |
|------------------------------------|----------------------------|--------------------------------------------|----------------------------------------|
| Kaca soda kapur<br>Soda lime glass | Kaca plumbum<br>Lead glass | Kaca silika terlakur<br>Fused silica glass | Kaca borosilikat<br>Borosilicate glass |
|------------------------------------|----------------------------|--------------------------------------------|----------------------------------------|



Praktis Kendiri

| Jenis kaca<br>Type of glass | Ciri-ciri<br>Characteristic                                                            | Kegunaan<br>Uses                                              |
|-----------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|
| (a)                         | Tahan haba dan bahan kimia<br>Heat and chemicals resistance                            | Kaca cermin mata<br>Glasses of spectacles                     |
| (b)                         | Takat lebur rendah dan mudah dibentuk<br>Low melting point and easily shaped           | Botol dan kaca tingkap<br>Bottle and window glass             |
| (c)                         | Sangat tahan haba dan bahan kimia<br>High heat and chemicals resistant                 | Alatan memasak dan tabung uji/Cooking utensils and test tubes |
| (d)                         | Sangat lutsinar dan indeks biasan tinggi<br>Very transparent and high refractive index | Prisma dan barang perhiasan<br>Prisms and ornaments           |



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