

Sponges have been used since ancient times



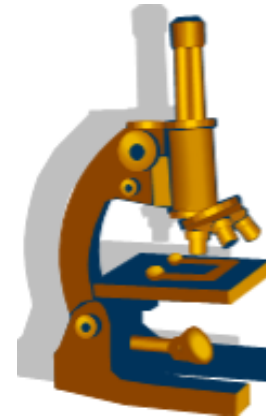
- The Greeks used them in their

\_\_\_\_\_.

- The Romans used th  
paintbrushes and \_\_\_\_\_.



- The early classification put sponges with \_\_\_\_\_.
  - When they started to use \_\_\_\_\_ they discovered the similarities to animals.



- Asymmetrical
- Sessile- non mobile

- Sponges do not have \_\_\_\_\_  
or \_\_\_\_\_.
- Sponge cells can recognize  
other sponge cells

Oscula    Choanocytes    Amoebocytes    Ostia    Mesoglea

- Spongin-makes up the skeleton on the sponge. It is a flexible \_\_\_\_\_ fiber.
- Spicules- tiny needles of silica and calcium carbonate

## Calcareous

have  
spicules  
made of  
calcium  
carbonate

## Glass

have  
spicules  
made of  
silica

## Demosponge

made of  
spongin

## Reproduce asexually and sexually

- Sponges \_\_\_\_\_ when cut into pieces
  - They reproduce by breaking off

\_\_\_\_\_



- Many sponges are

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- The egg and sperm are produced at different times so they \_\_\_\_\_ self fertilize