

# Brittle Star

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○ The brittle star (also called the \_\_\_\_\_) is a spiny, hard-skinned, long-armed \_\_\_\_\_ that lives on the rocky sea floor, from shallow waters to great depths. Brittle stars are NOT \_\_\_\_\_, but are related to sea stars. These marine \_\_\_\_\_ move very slowly along the sea bed. There are over \_\_\_\_\_ different species of brittle stars worldwide.

○ Most brittle stars have \_\_\_\_\_ (or a multiple of \_\_\_\_\_) long, thin, spiny arms that \_\_\_\_\_ from a flat central \_\_\_\_\_; the arms do not touch each other at their bases. Many of the arms are \_\_\_\_\_. If a brittle star's arm is cut off, it will \_\_\_\_\_ (regrow). Brittle stars that have multiple-forked arms are called basket stars.

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○ Most brittle stars are under \_\_\_\_ in diameter. They have a hard \_\_\_\_ and vary in color. They do not have a \_\_\_\_; they have a simple ring of \_\_\_\_ that moves information around the body. Tube feet located along the arms sense \_\_\_\_ and \_\_\_\_.

○ Brittle stars are mainly \_\_\_\_; they eat \_\_\_\_ matter and \_\_\_\_\_. Some brittle stars can also kill small \_\_\_\_\_. They push their \_\_\_\_ out through their \_\_\_\_ (which is located on the underside of the \_\_\_\_ of the brittle stars) and digest the prey. They don't have an \_\_\_\_\_. Their mouth has five teeth.

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○ **Classification: Kingdom \_\_\_\_\_ (\_\_\_\_\_), Phylum \_\_\_\_\_ (\_\_\_\_\_), Class \_\_\_\_\_ (brittle stars and basket stars).**