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| https://www.birklandsschool.co.uk/img/header_logo.pnghttps://www.birklandsschool.co.uk/img/header_logo.png  **Birklands Primary School – SCIENCE Knowledge Organiser** | **Year:** 3  **Topic:** Animals Including Humans |

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| **Previous learning - What I should already know:**   * Know that animals have offspring that grow into adults and name common offspring * Know that animals need water, oxygen and food for survival including humans * Know and explain why exercise and the right types of food is important for humans * Understand the importance of hygiene to keep humans healthy. | Skeletons;  -protect organs inside the body  -allow movement  -support the body and stop it falling to the floor | |  |  | | --- | --- | | **Key Vocabulary** | | | nutrition | food needed to live and stay healthy. | | skeleton | a framework made of bone that supports and protects the body | | muscle | soft tissues in the body that contract and relax to cause movement | | spine | the line of bones down the centre of the back that supports the body | | tendons | cords that join muscles to bone | | joints | the connections between bones in the body | | vertebrate | animals with backbones | | invertebrates | animals without backbones | | endoskeleton | internal skeleton | | exoskeleton | external skeleton | | carbohydrate | a nutrient which provides the body with energy | | protein | a nutrient which helps the body with growth and repair | |
| **Knowledge - What I need to know:**   * Know that animals, including humans, need the right types and amount of nutrition * Know that animals, including humans, cannot make their own food and that they get their nutrition from what they eat * Know that humans and some other animals have skeletons and muscles for support, protection and movement * Name the main body parts associated with the skeleton and muscles * Know that different parts of the body have special functions | Skeletal muscles work in pairs to move the bones they are attached to by taking turns to contract (get shorter) and relax (get longer). |
| Food pyramid concept Free Vector  Cereals, bread, pasta  fat, oil, sugar, sweets  Meat, fish, milk, eggs  Fruit & vegetables  Food Pyramid | |