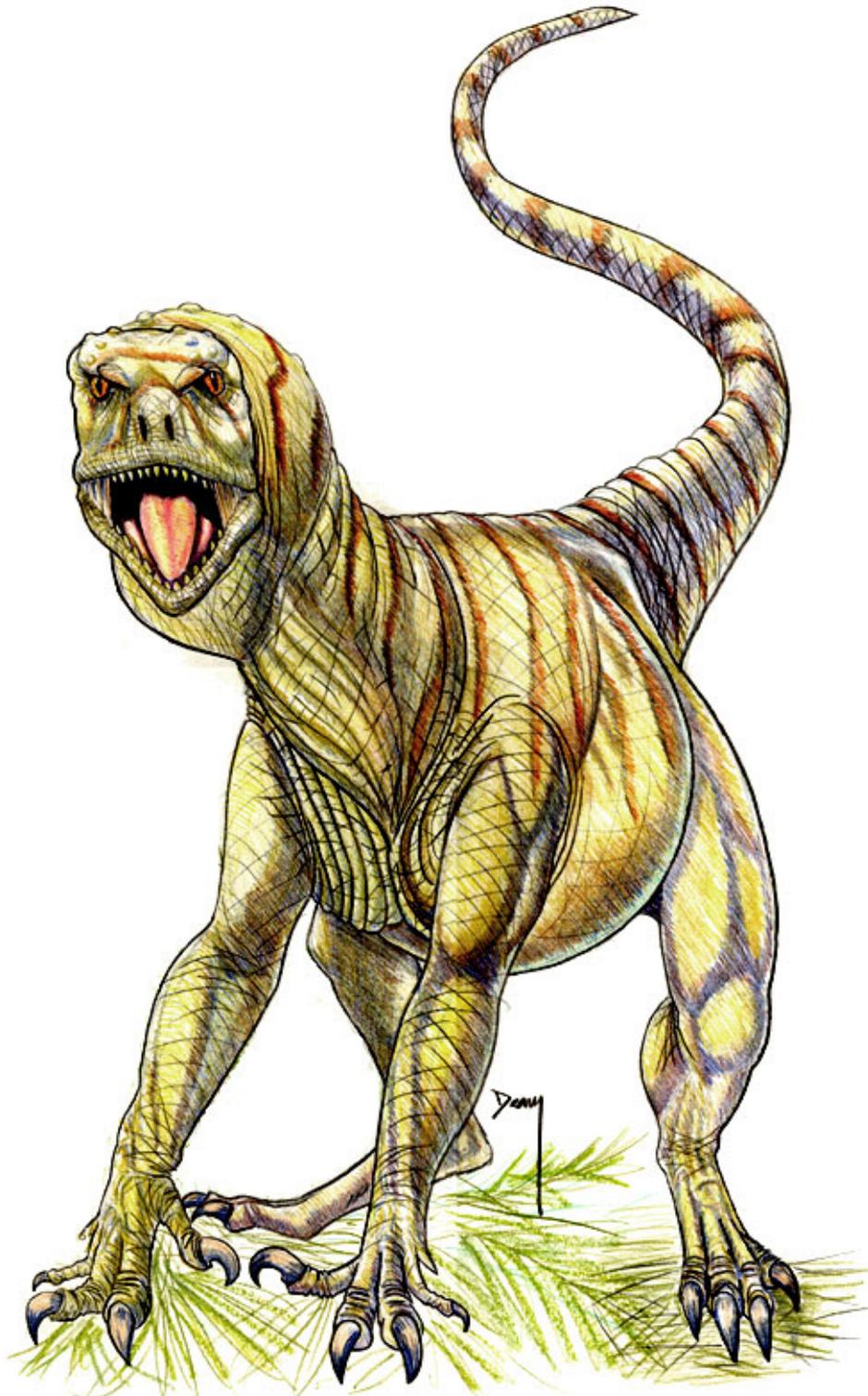


The Bristol Dinosaur Teacher Resource Pack



Key Stage 1

Introduction

The Bristol Dinosaur Project is committed to widening participation in science subjects. The aims of the project are to highlight the accessibility of science and to show children that science is exciting and fun, being one of the only subjects in which they can discover something new, something that has never been found before.

This teacher resource pack supports the outreach visit. The purpose of the resource pack is to provide background information and classroom-based activities that can be used by teachers. Where relevant, links to the National Curriculum are highlighted. This is by no means the limit of information available on these subjects, more just an insight into the types of information currently around.

Activities described in this section can all be done in the classroom, using equipment normally found in schools. Some of the activities may need photocopied sheets for the students. A copy of these sheets is included at the end of the section.

Children of this age group will probably know more about dinosaurs than you do. Use this as an opportunity to let them tell you what they know. Some of the younger children may find the idea of giant reptiles quite frightening, so reassure them that dinosaurs all died out a long time ago, before they were born. Redress the 'dangerous' dinosaur image by talking about the huge range of dinosaurs. Many of the scary looking dinosaurs were plant eaters and used their horns and spikes for self-defence.

Contact Us

We hope that this resource has been educational, fun and exciting. The Bristol Dinosaur Project is committed to widening participation in science subjects and this could not be accomplished without the help of committed individuals like you. If you have any questions or comments please feel free to contact us, we always appreciate feedback!

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1. Dinosaur Dinner

Curriculum Links: Sc2 Life processes and living things 2b

Equipment

Pictures of Dinosaurs
Pencil

Instructions: Discuss the different types of food a dinosaur will eat. In future we will be creating a 'Match the dinosaur to its food' sheet.

2. Carbon Films

Curriculum Links: Sc2 Life processes and living things 1a

Equipment

A selection of leaves
Paper and pencils

Instructions: Collect several leaves. Place blank paper over the leaves and rub over it with the side of a pencil lead. The carbon leaf rubbings are similar to many fossils that have been discovered. Plant fossils, in particular, are often nothing more than a film of carbon on rock.

Discuss with the children what fossils are. Think about:

- Are fossils alive?
 - Do you think they were ever alive?
 - How can we tell if something is living?
-

3. Dinosaur Timeline

Curriculum Links: Chronological understanding 1a,b

Equipment:

Roll of paper
Pictures of dinosaurs
Glue or Blue tac

Instructions: Draw a basic timeline on a length of paper (see Resource section). Figure out when different dinosaurs lived and place them at the appropriate time on the diagram. If you have enough space place human beings on the timeline and discuss with the children how long ago dinosaurs lived.

4. Dinosaur Footprints

Curriculum Links: Sc1 Scientific enquiry 2h & Sc2 Life processes and living things 2a

Equipment

Plastecine Stamps

Or Potato Prints

Paint

Instructions: Have the children make dinosaur footprints out of plastecine or potato. Use paint to make prints on paper. Get the children to look at the prints and compare them to other animal prints and their own footprints.

5. Dinosaur Food

Curriculum Links: Sc2 Life processes and living things 2b

Equipment:

A collection of different plants

Instructions: Make a collection of dinosaur 'food'; e.g. conifers, magnolias, pinecones and ferns. Discuss what types of food other animals eat. Look at animal teeth and discuss how different teeth are used to eat different foods.

5. Dinosaur Shadows

Curriculum Links: Sc1 Scientific enquiry 2h

Equipment

Dinosaur Shadow sheet (at end of section)

Instructions: This activity would suit very young children. Draw a line to match each dinosaur to its shadow. You can colour in the dinosaurs afterwards.

6. My Favourite Dinosaur

Curriculum Links: Sc2 Life processes and living things 2b

Equipment

My Favourite Dinosaur sheet (at end of section)

Pencils and crayons

Instructions: Ask the children to fill out the 'My Favourite Dinosaur' sheet. Discuss how we don't know what colours they were so we guess based on modern animals. Discuss camouflage and warning colours. Have children colour in their dinosaur.

7. Dinopuzzle

Curriculum Links: Sc1 Scientific enquiry 2h

Equipment

Dinopuzzle sheet (at end of section)
Crayons
Scissors
Cardboard

Instructions: Colour in the picture on the sheet. Stick the picture onto cardboard if you like to give it more strength. Cut the sheet in 12 pieces to make a jigsaw.

8. Label a Tyrannosaurus rex

Curriculum Links: Sc2 Life processes and living things 2a

Equipment

Label a Tyrannosaurus rex sheet (at end of section)
Pencil

Instructions: Write the words at the bottom of the sheet at the correct position on the dinosaur. Discuss with the children different parts of their body and the fact that most animals (including dinosaurs) also have the same parts.

9. Dinosaur Tracking

Curriculum Links: Sc2 Life processes and living things 2b

Equipment

Dinosaur footprint sheets
Scissors
Paints, crayons and chalk

Instructions: Using the Dinosaur Footprint Sheets, cut out the different dinosaur footprints (they are all left feet). Flip half of them over to get the correct shape of the right foot. Divide them into pairs, have the children colour them, and then make them into trackways. Have children mark the distance between footsteps with chalk. Now get the children to run and mark the distance between footsteps. Notice the difference between short walking footsteps and long running footsteps. This is how palaeontologists can tell if a dinosaur was running or walking when it made the footprints.

10. Where are dinosaur footprints made?

Curriculum Links: Sc2 Life processes and living things 2b

Equipment

Several large trays approx.

Different sediments like dry / wet sand and clay, plasticine, mud, soil, plaster of paris.

Instructions: Fill each tray with a different sediment (not necessary for clay or plasticine). Take off your shoes and make a footprint in the sediment or, alternatively, just use your hands. Look at the different shapes of the footprints made in different types of sediment. You can allow the mud and/or plaster of paris to dry, preserving the footprint, and make a display with the different types of footprint.

This experiment demonstrates how important water can be in holding particles of different size together.

Dinosaur Shadows













My Favourite Dinosaur

Name: _____

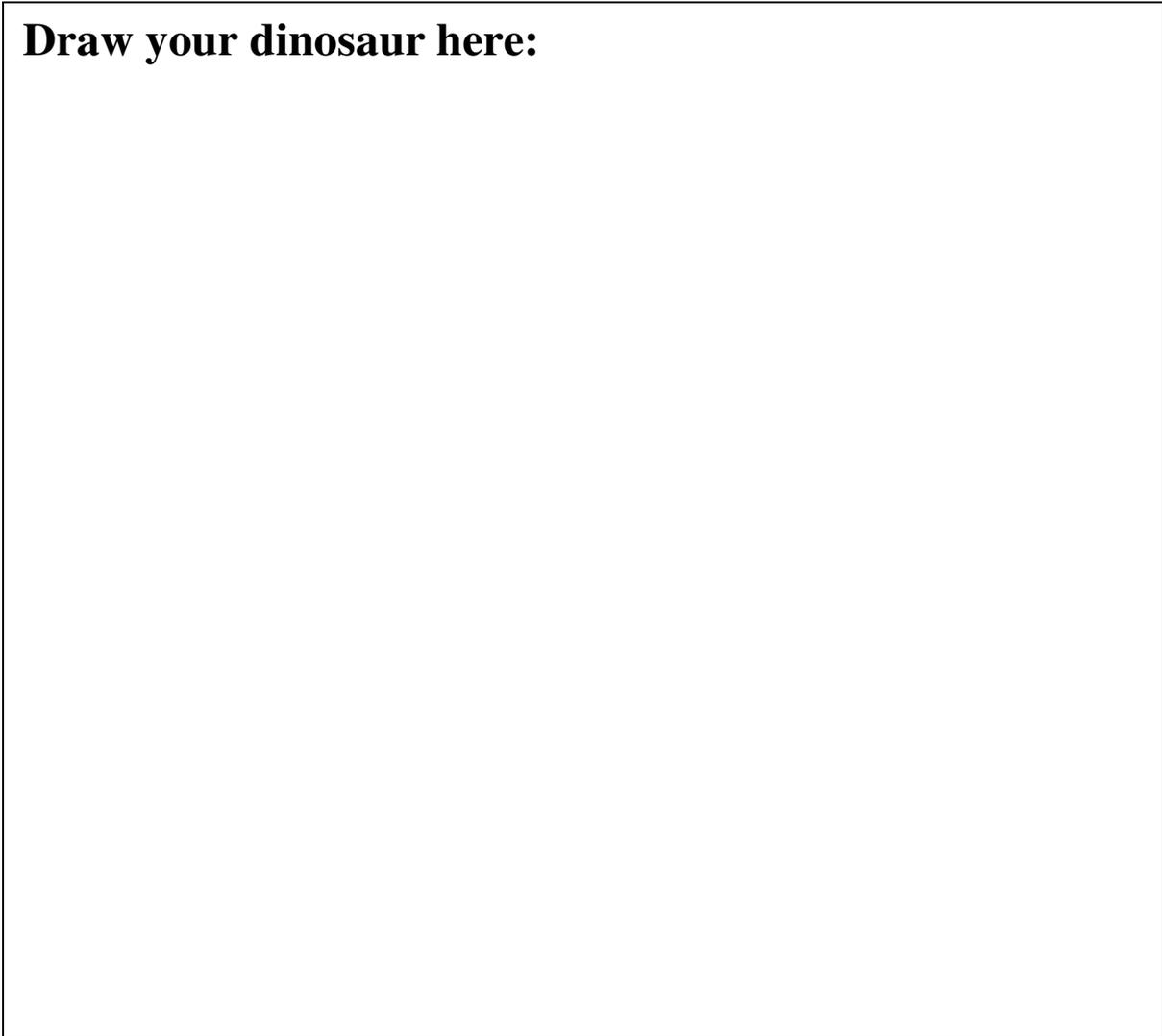
Dinosaur's name:

Meaning of name:

When it lived:

Size:

Draw your dinosaur here:



Dinopuzzle



Label a *Tyrannosaurus rex*



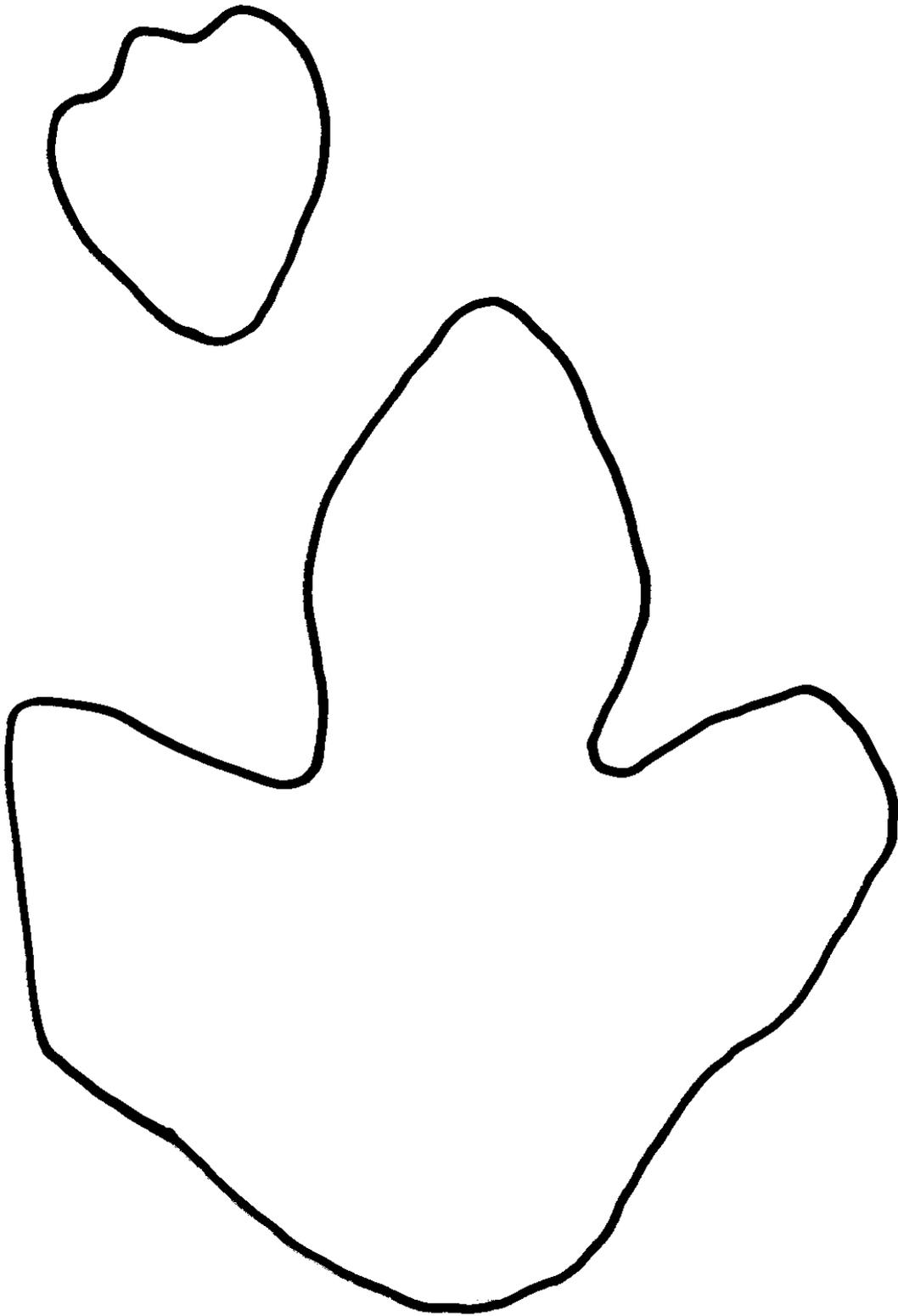
Write the words below on the correct body parts of the *Tyrannosaurus rex*.

Eye
Knee
Back
Arms

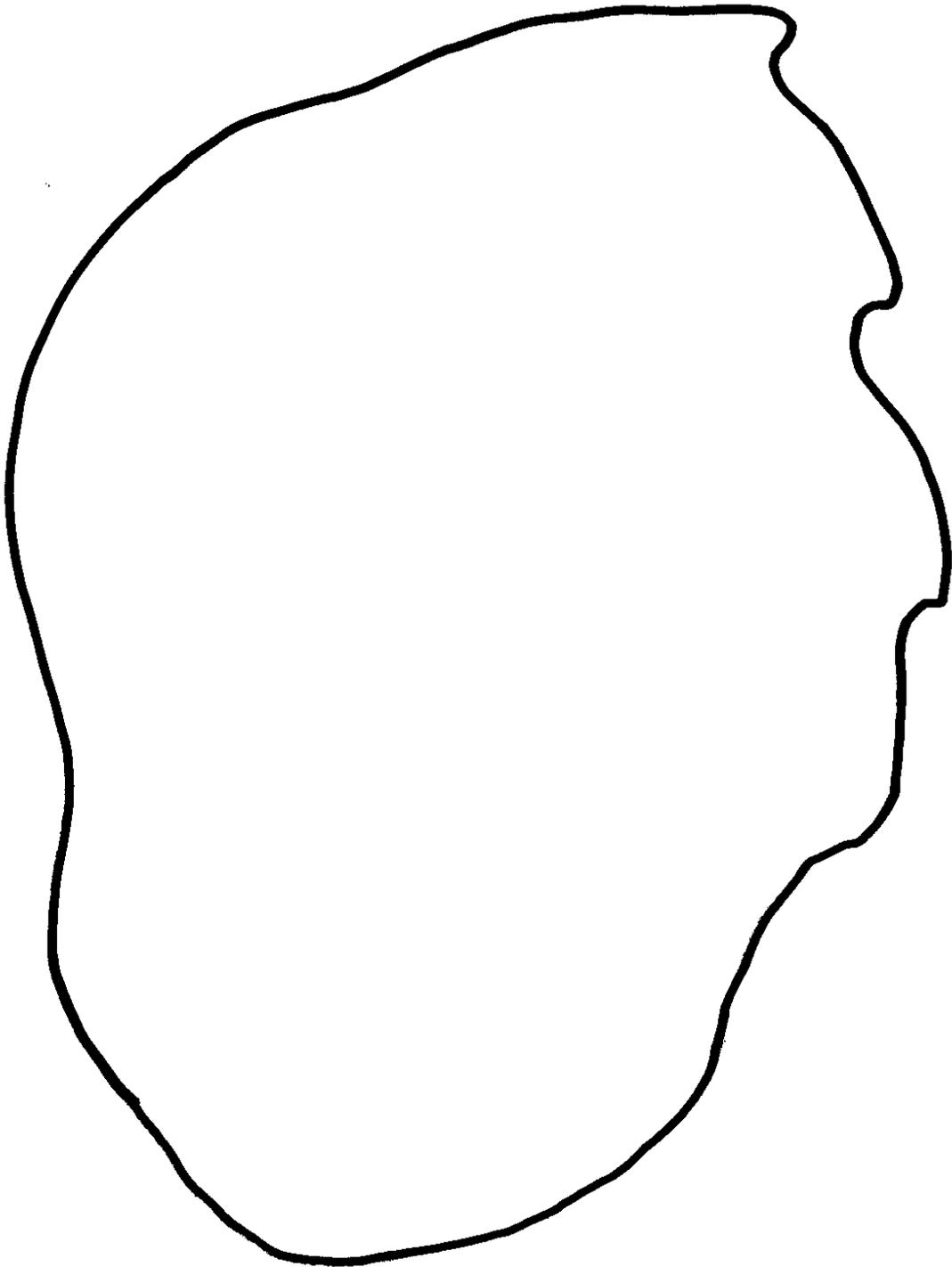
Ankle
Claws
Nostrils
Neck

Teeth
Tail
Two fingers
Three toes

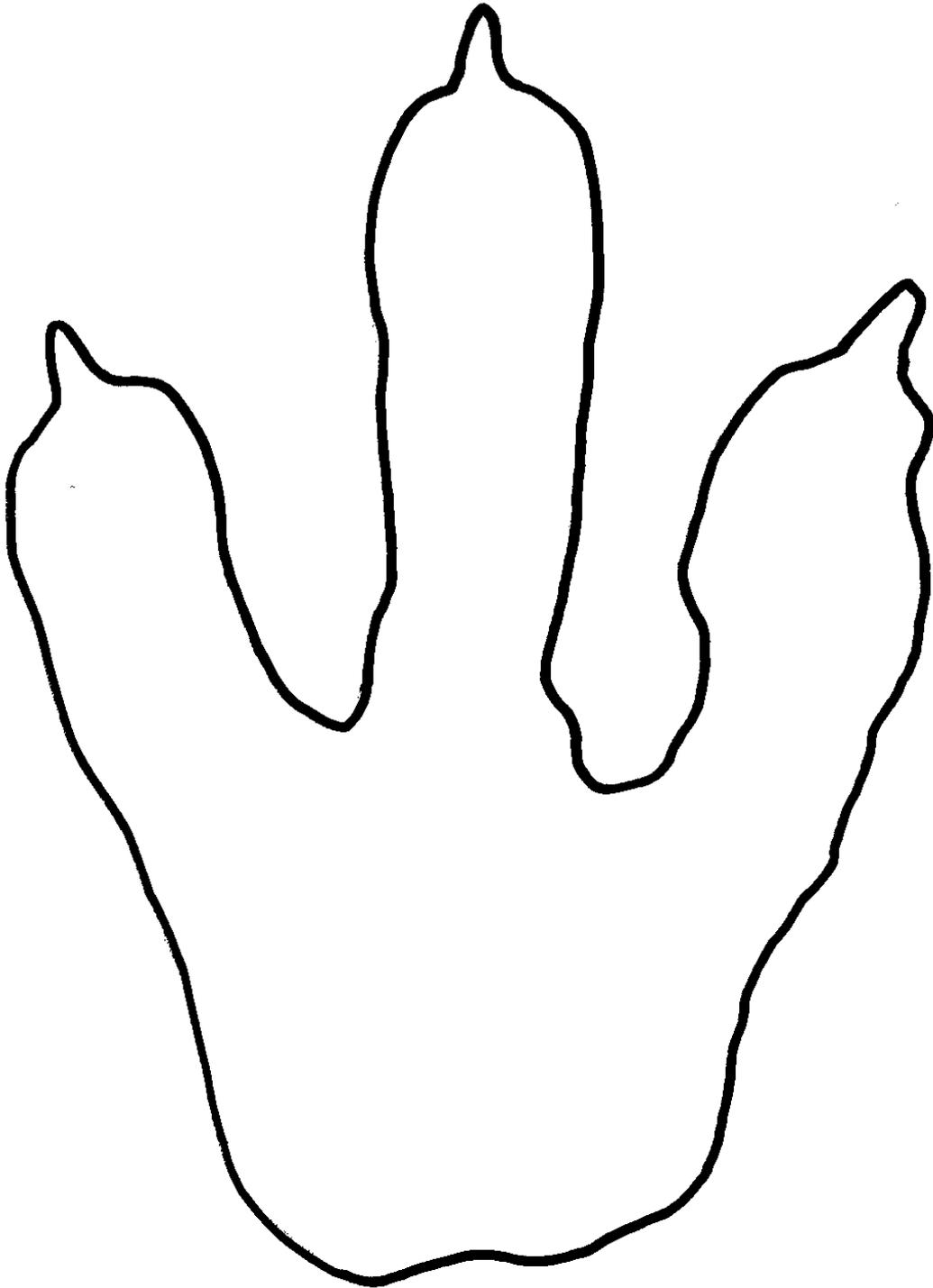
Duck-billed dinosaur



A long-necked, long tailed sauropod



A large meat-eating theropod



A small meat-eating theropod

