



Similarity to birds

- Wings for flight / gliding
- Feathers (asymmetrical like birds)
- Hollow bones (lighter)
- Legs under body
- Furcula (fused wishbone, to strengthen thorax for flight)
- Reversed big toes

Similarity to dinosaurs

- Reptilian teeth
- Long bony tail
- 3 clawed hand
- Pubis like a Theropod dinosaur

(things that birds don't have)

Solenhofen Jurassic why exceptional preservation?

- Barred basin lagoon producing fine limestones
- Fine calcite mud preserved fine detail
- Anoxic conditions prevented bacterial decay
- Brine, high salt content water reduced the chance of scavengers
- Creatures washed into lagoon from the sea or fell into it from the air
- Rapid burial of creatures in limestone mud
- Low energy environment, little breakage of fossils or disarticulation