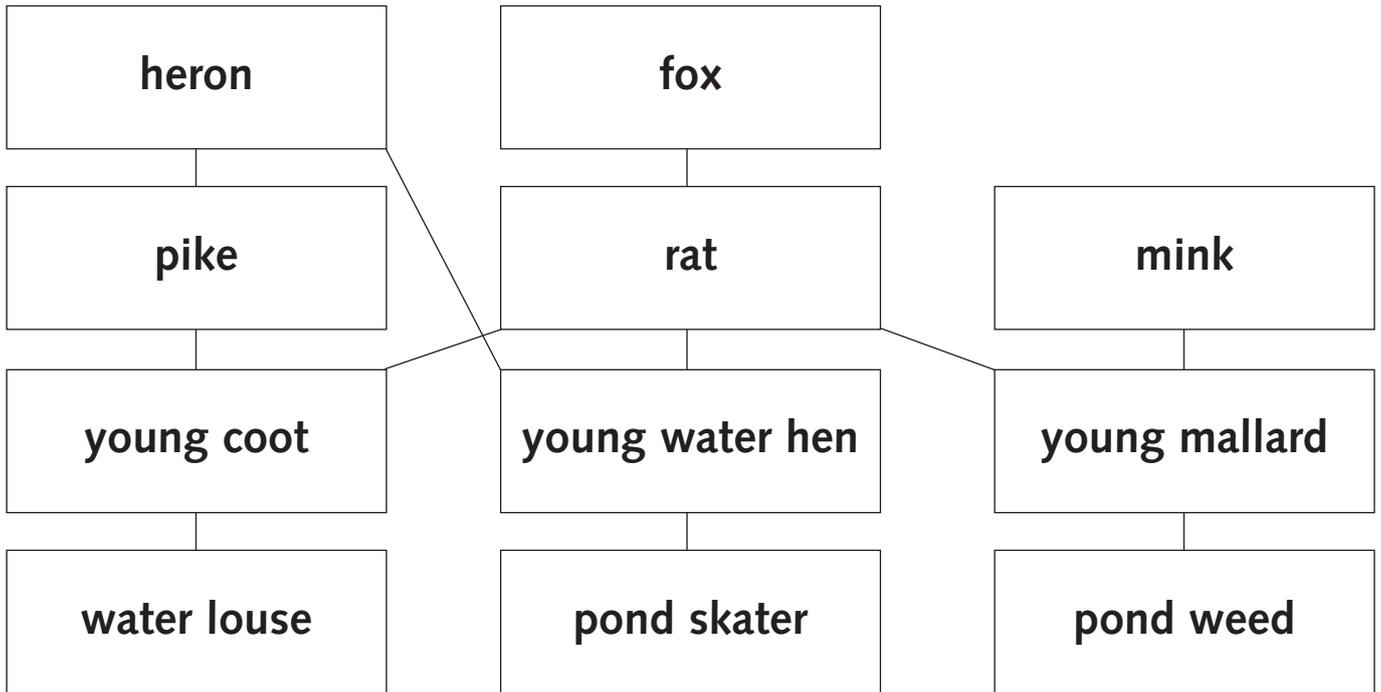


# FOOD WEB

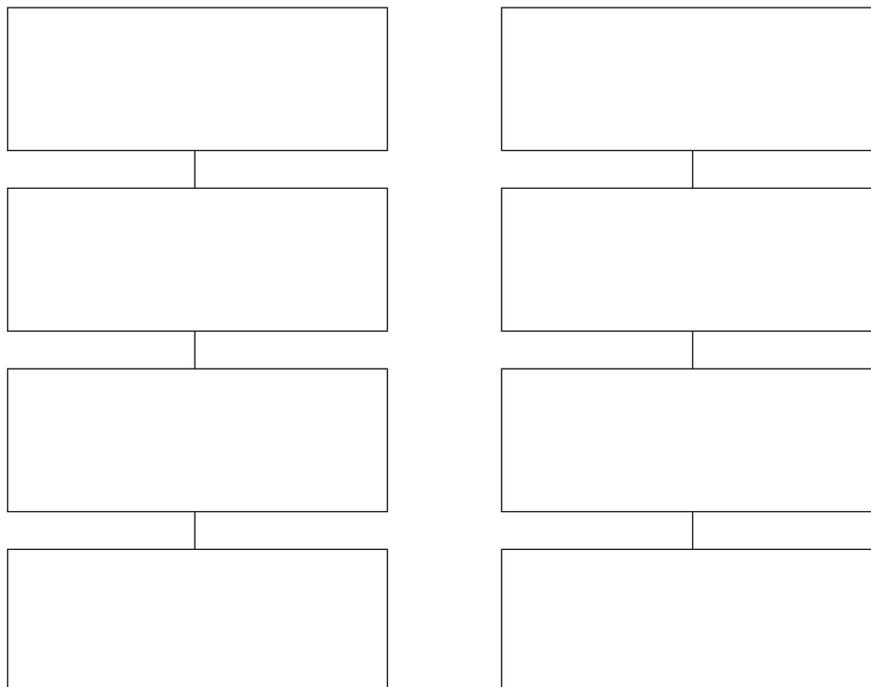


Moorhens eat water weed and insects.

Swans eat aquatic vegetation but may eat snails, worms and small fish.

Mallard eat seeds, duckweed, frog bit.

Mink, rats, foxes, herons and pike all eat eggs and small ducklings but don't usually harm swans as the parents can be quite fierce.



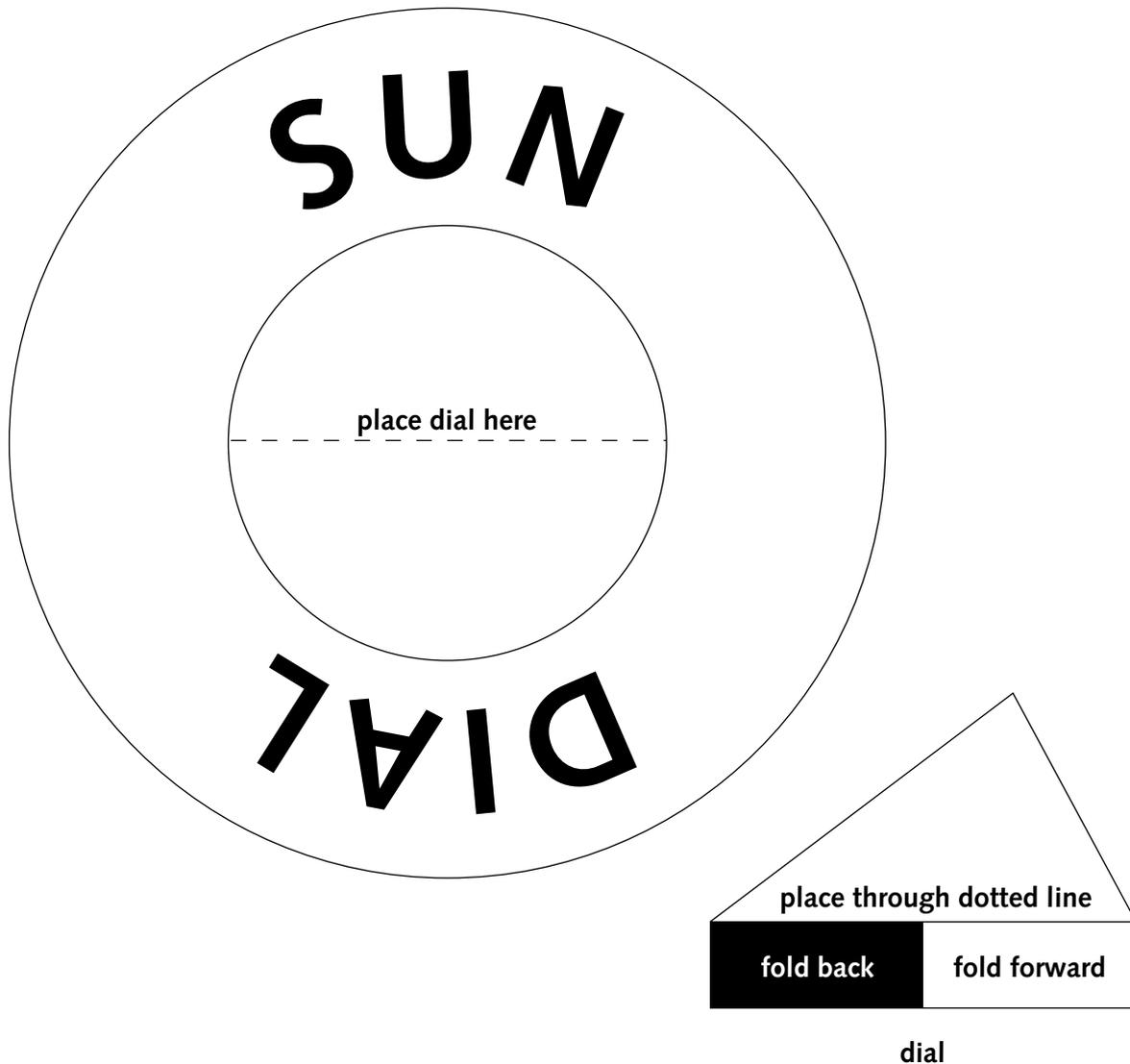
Can you make a food web of your own based on the plant and animal life in St. Fiachra's Garden or land in your own school grounds or school garden?

# SUNDIAL

Locate the sundial in the Japanese Gardens.

Can you see how it works?

When you return to school make a simple sundial using the template  
(paste the template onto card)



## A SIMPLE SUNDIAL.

The triangular pointer, which is upright, will cast a shadow on the circular disc on a sunny day.  
(Alternatively, set a pencil upright in blue tack at the centre point of the circular disc.)

Throughout the day put a mark with a pen for each hour (on your watch)  
indicating where the shadow falls at that time.

You now have a sundial. When you want to tell the time, just look at the shadow.

In time, with a bit of practice, you will be able to tell the time to the nearest quarter of an hour.

Sundials tell "Sun Time". Clocks and watches tell "Clock Time".

Sun time is based around the idea that when the sun reaches its highest point it is NOON and next day  
when the sun passes that point it will be NOON again.

The time which has elapsed between successive noons is sometimes more and sometimes less than 24 hours of  
clock time.

What would be the biggest difficulty in using a sundial as a timing instrument?

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