



Set A - Sand dune super species

Bird's-foot trefoil Lotus corniculatus

- Plant
- Producer
- Common
- Habitat semi-fixed dunes, fixed dunes and dune slacks
- Flowers from June to September
- Superpower it is an important foodplant for the caterpillars of the common blue, silver-studded blue and wood white butterfly and its flowers are an excellent source of nectar for bees.



Dillwyn's dung beetle *Onthophagus nuchicornis*

- Animal > invertebrate > insect
- Secondary consumer omnivore
- Common
- Habitat semi-fixed dunes
- Superpower disposes of dead matter, where there is a scarcity of dung it can be found in dog faeces.







Grey bush cricket *Platycleis albopunctata*

- Animal > invertebrate > insect
- Secondary consumer omnivore
- Least concern
- Habitat rough vegetation on all dunes
- Superpower camouflage and jumping





Chough *Pyrrhocorax*

- Animal > vertebrate > bird
- Secondary consumer omnivore (invertebrates and berries)
- Rare
- Habitat all coastal areas
- Superpower acrobatic flight.
 65% of the UK population live in Wales.





Small blue butterfly Cupido minimus

- Animal > invertebrate > insect
- Primary consumer herbivore
- Rare
- Habitat all dunes and coastal grasslands
- Superpower the small blue tends to live in small colonies of up to 30 individuals. Both sexes can be found in communal roosts, facing head down in the grass.





Least puffball Bovista pusilla

- Fungi
- Decomposer
- Common
- Habitat semi-fixed and fixed dunes
- Superpower burst spraying its brown dust-like spores.





Creeping willow *Salix repens*

- Plant
- Producer
- Common
- Flowers from April to May
- Habitat fixed dunes and dune slacks
- Superpower it can change its growth form from upright to horizontal when engulfed by sand.







Dune tiger beetleCicindela maritima

- Animal > invertebrate > insect
- Secondary consumer carnivore
- Rare
- Habitat mobile dunes
- Superpower can rapidly fly and run in search of prey. Its larvae are also predatory.





Vernal mining bee *Colletes cunicularius*

- Animal > invertebrate > insect
- Primary consumer herbivore
- Rare
- Habitat mobile dunes
- Superpower coats inside of burrows with waterproof membrane.







Dune robber fly *Philonicus albiceps*

- Animal > invertebrate > insect
- Secondary consumer carnivore
- Rare
- Habitat mobile dunes
- Superpower injects poison to paralyze prey.





Vineyard or striped snail Cernuella virgata

- Animal > invertebrate > mollusc
- Primary consumer herbivore
- Common
- Habitat fixed dunes and grassland
- Superpower the snail makes and uses love darts to try and attract a mate.





Early marsh orchid *Dactylorhiza incarnata*

- Plant
- Producer
- Occasional or locally frequent
- Flowers from May to mid-July
- Habitat dune slacks
- Superpower super food source for pollinators, with up to 50 flowers on one stem.





Early gentian *Gentianella anglica*

- Plant
- Producer
- Rare
- Flowers from March to July
- Habitat mature dunes and coastal grassland
- Superpower it is endemic to the UK so is found nowhere else in the world!







Willow poisonpie Hebeloma vaccinum

- Fungi
- Decomposer
- Rare
- Habitat dune slacks
- Superpower it links with the roots of the Creeping willow to help it grow.





Great crested newt *Triturus cristatus*

- Animal > vertebrate > amphibian
- Secondary consumer carnivore
- Declining European protected species
- Habitat dune slacks
- Superpower has been known to have lived on earth for at least 40 million years.







Natterjack toad Epidalea calamita

- Animal > vertebrate > amphibian
- Secondary consumer carnivore
- Rare European protected species
- Habitat dune slacks
- Superpower pioneer species, the first to colonise a new habitat.





Slow worm *Anguis fragilis*

- Animal > vertebrate > reptile
- Secondary consumer carnivore
- Common
- Habitat fixed dunes
- Superpower can shed their tails to escape from predators.





Sand lizard Lacerta agilis

- Animal > vertebrate > reptile
- Secondary consumer carnivore
- Rare European protected species
- Habitat semi-fixed and fixed dunes
- Superpower uses rabbit burrows for shelter and hibernation and digs own burrows off them.
 The burrows can be as deep as 1 meter but very small in diameter.





Dune inkcap *Coprinopsis ammophilae*

- Fungi
- Decomposer
- Becoming rare
- Habitat mobile and semi-fixed dune
- Superpower salt tolerant inkcap species, grows amongst roots of Marram grass.

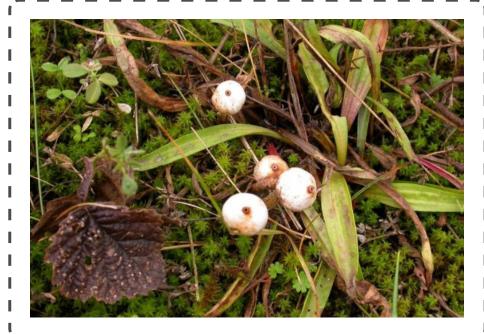




Winter stalkball *Tulostoma brumale*

- Fungi
- Decomposer
- Rare
- Habitat fixed dunes
- Superpower the lollipop-like fungus can be easily overlooked among snail shells and other sand dune debris, as it is so well camouflaged.







Ringed plover Charadrius hiaticula

- Animal > vertebrate > bird
- Secondary consumer carnivore
- Declining
- Habitat mobile dunes and sandy/shingle beaches
- Superpower they run at speed and then stand still to draw insects to the surface.





Kestrel

Falco tinnunculus

- Animal > vertebrate > bird
- Tertiary consumer carnivore
- Declining
- Habitat all sand dune areas
- Superpower can see UV urine 'wee' trails.





Little tern *Sternula albifrons*

- Animal > vertebrate > bird
- Secondary consumer carnivore
- Rare
- Habitat sandy/shingle beaches often below the high-water mark
- Superpower migrate to West Africa in winter; a round trip is almost 19,000 miles.







Marram grass Ammophila arenaria

- Plant
- Producer
- Common
- Flowers from July to August
- Habitat mobile, semi-fixed and fixed dunes
- Superpower is a xerophyte, so can withstand dry conditions. It has extra long underground stems which enable the plant to survive sand burial. Leaf blade is rolled to reduce water loss.





Petalwort *Petalophyllum ralfsii*

- Plant
- Producer
- Rare
- Habitat dune slacks
- Superpower during the summer it is not visible as it survives underground until the wet weather returns from autumn onwards.







Prickly saltwort Salsola kali

- Plant
- Producer
- Flowers from July to September
- Habitat strandline & mobile dunes
- Superpower succulent halophyte plant (salt tolerant). When burnt it produces sodium carbonate, which was used to make glass and soap.







Pyramidal orchid

Anacamptis pyramidalis

- Plant
- Producer
- Occasional or locally frequent
- Habitat semi-fixed to fixed dunes
- Superpower it provides nectar and pollen for pollinators.





Sea holly

Eryngium maritimum

- Plant
- Producer
- Frequent or locally abundant
- Flowers from July to September
- Habitat strandline, mobile and semi-fixed dunes
- Superpower it was once used to treat flatulent disorders and the roots can be eaten boiled or roasted. It was used to make a jelly or sweets called "kissing comfits".







Meadow pipit *Anthus pratensis*

- Animal > vertebrate > bird
- Secondary consumer carnivore
- Common
- Habitat mobile, semi-fixed and fixed dunes
- Superpower favourite foster parent to cuckoo chicks.







Redshank

Tringa totanus

- Animal > vertebrate > bird
- Secondary consumer carnivore
- Declining
- Habitat saltmarsh and dune grassland
- Superpower males perform an elaborate aerial display as part of their courtship ritual.





Peregrine falcon Falco peregrinus

- Animal > vertebrate > bird
- Tertiary consumer carnivore
- Rare
- Habitat all dune areas
- Superpower fastest bird in the world, reaching 390km per hour in a dive.







Fox *Vulpes vulpes*

- Animal > vertebrate > mammal
- Tertiary consumer carnivore
- Common
- Habitat all sand dune areas
- Superpower foxes eat just about anything, including berries, insects, small mammals and birds. This year-round food source means they don't need to hibernate.





Rabbit Oryctolagus cuniculus

- Animal > vertebrate > mammal
- Primary consumer herbivore
- Common
- Habitat fixed dunes
- Superpower nature's lawnmowers, helping small plants to grow and churning up sand.





Parasol

Macrolepiota procera

- Fungi
- Decomposer
- Common
- Habitat fixed dunes
- Superpower in Wales fairies supposedly use the parasols as umbrellas. They often grow in circles or 'fairy rings'.





Sea sandwort *Honckenya peploides*

- Plant
- Producer
- Locally common
- Flowers from May to August
- Habitat strandline, embryo dunes and mobile dunes
- Superpower the shoots and leaves are rich in vitamin A and vitamin C and can be used as a green, leafy vegetable either raw or cooked.





Shore dock *Rumex rupestris*

- Plant
- Producer
- Endangered European protected species
- Flowers from June to August
- Habitat coastal
- Superpower fruit floats in and is dispersed by seawater and this enables it to colonize new locations.







Horse

Equus caballus

- Animal > vertebrate > mammal
- Primary consumer herbivore
- Common
- Habitat all grassland habitats including mobile and fixed dunes
- Superpower will eat courser material allowing more light to reach the ground which helps our rarer, less competitive species, to persist.







Fen orchid

Liparis loeselii

- Plant
- Producer
- Endangered European protected species
- Flowers from June to July
- Habitat dune slack
- Superpower it needs to be next to a mycorrhizal fungi to be able to germinate.







Sand couch grass Elymus farctus

- Plant
- Producer
- Common
- Flowers from June to August
- Habitat embryo dune, mobile dune and semi-fixed dune
- Superpower pioneer species, it is one of the first plants to colonise fresh sand.







Sea stock *Matthiola sinuata*

- Plant
- Producer
- Very rare
- Flowers from June to August
- Habitat embryo and mobile dunes
- Superpower after flowering the dry flower head, containing seeds, can float off to a new site.









