Trace Fossils

Slide Number	Title	Information	Questions for
			students
2	Trace Fossils		
	What are they, how		
	do they form, what do		
	they tell us about past		
	environments		
3	What gets fossilsed?	When skeletons,	Q. If a large wave
	Picture of three	bones or other hard	washed over the
	people walking on a	parts of creature's	beach what kinds of
	beach	bodies get fossilised	things would get
		they are called body	fossilsed?
		fossils. When evidence	A. Bones of humans
		for a creature	and their footprints
		interacting with an	Q. What kind of traces
		environment get	do we see in the
		fossilsed, e.g.	modern world that
		footprints, it is called a	tells us a creature has
		trace fossil. This is	been in an
		how we know a	environment?
		creature existed even	
		if it's body isn't	
-	- · · ·	fossilised.	
4	Everyday trace		Q. What kind of
	makers		creature made this
	Picture of a leaf and a		trace?
	Everyday trace		A Caternillar
5	makers		feeding on the leaf
	Picture of a leaf with a		
	trail and a caterpillar		
6	Everyday trace		O. What kind of
	makers		creature made this
	Picture of muck in the		trace?
	grass		
7	Everyday trace		A. Earthworm cast –
	makers		soil ejected from the
	Picture of muck in the		digestive tract of a
	grass and earthworm		worm as it burrows
			and feeds in the soil
8	Everyday trace		Q. What creature
	makers		made this trace?
	Picture of footprints		Q. Is there evidence
	on a beach		for more than one
			creature here?
9	Everyday trace	Sometimes trace	A. Human and a dog
	makers	fossils give us	

10	Picture of footprints on a beach, picture of man and a dog Everyday trace makers Picture of scratchings on a log	evidence that two or more creatures were interacting with each other and the environment at the same time. This can teach us about animal relationships.	Q. What is the trace here? A. Scratches Q. What creature
11	Everyday trace makers Picture of scratchings		made this? A. Badger
	on a log and a picture of a badger		
12	Types of trace fossils Tracks and Trails	When palaeontologists study trace fossils they look at four common types. 1. tracks – individual prints 2. trail – whole body trail	
13	Types of trace fossils Burrows and borings	 3. burrow – a hole or tunnel formed in soft sediment like sand or mud 4. borings – a hole or tunnel formed in something very hard like rock or wood 	
14	Types of trace fossils Coprolites	There are other types of trace fossils too. This is a fossil coprolite.	Q. What is this? A. A fossil poo!
15	Test Picture of tracks		 Q. What kind of trace fossil is this? A. A track – insect footprints
16	Test Picture of bored wood		Q. What kind of trace fossil is this? A. Boring

17	Test		Q. What kind of trace
	Picture of fossilsed		fossil is this?
	dinosaur nest/eggs		A. Eggs – a dinosaur
			nest
18	How easy is it to	These traces were all	Q. Do you think it is
	make a trace	made by the same	easy or hard to make
	Who made it?	creature.	a trace?
			Q. What creature
			made these traces?
			A. A Bird
			Q. Why do the traces
			look different?
			A. The bird was
			walking across
			different surfaces
			Q. What is the
			different between
			these surfaces?
			A. Some are wet and
			some are drier.
			Q. Is it easier to make
			a footprint in wet or
			dry sediment?
			A. It needs to be a bit
			wet but not too wet.
			Q. What makes a good
			trace?
			A. Detailed, defined,
			Stays Intact
			Q. What did this trace
			creature?
			• It had four long
			nointed feet three at
			the front and one at
			the back it may have
			had claws/talons
19	One animal =	One animal can create	
	different traces	traces which look verv	
	Picture of a centipede	different. If a creature	
	and two pictures of	is walking on soft dry	
	traces	sediment it's	
		footprints will look	
		less defined,	
		compared to if it is	
		walking on more firm	
		and slightly wet	
		sediment.	
20	Body features - toe	A good trace fossil will	Q. What features can
	shapes	contain lots of detail	you see in this
			footprint?

	Dicture of a diposaur	about the creatures	A Three toos distinct
	footprint	body	A. Three toes, distinct
24		This is a famous wish	
21	Irish trace tossiis -	I his is a famous irish	Q. What kind of trace
	Olivellites	trace tossil called	TOSSII IS IT?
		Olivellites. It is the	A. A trail – a long
		burrow of marine	continuous line
		animals that lived	
		during the	
		Carboniferous period	
		over 300 million years	
		ago. The prominent	
		curved lines are	
		feeding trails that	
		could have been made	
		by worms snails or	
		crustaceans	
22	Irich traco fossils	The Valentia Tetraned	
22	Valontia Trackway	Trackway is most	
	valentia Hackway	famous bacausa it is	
		Tallious because it is	
		one of only three	
		trackways in the world	
		made by early land	
		animals during the	
		Devonian (ca. 400	
		million years) Period.	
		On Valentia Island	
		there are in fact	
		almost 20 trackways	
		preserved in different	
		rock layers laid down	
		in a swampy area	
		beside a river channel.	
		The longest trackway	
		has more than 145	
		imprints of the feet of	
		an early amphibian	
		and the smaller	
		foralimb prints can be	
		distinguished from the	
		lastinguisned from the	
		larger nindlimb prints.	
		Some of the shorter	
		trackways show traces	
		of a tail being dragged	
		along the silty mud.	
23	Ireland's Fossil	To find out more	
	Heritage website	about Irish fossils you	
		can check out our	
		website, we have	
		information on fossils,	
		a fossil map and even	
		a fossil video game!	