Subject: Science Year: KS1 year B NC/PoS: observe changes across the four seasons observe and describe weather associated with the seasons and how day length varies. (N.B. this unit to be completed over the year) Prior Learning (what pupils already know and can do) Know the names of the four seasons and that changes occur within the seasons. Know the difference between day and night. End Goals (what pupils MUST know and remember) To know in Autumn the leaves of many trees change colour, the temperature grows colder, plants stop making food and animals prepare for the months ahead. To know in Winter it is usually the coldest time of the year and in some places, it brings freezing temperatures, snow and ice. To know in Spring dormant plants begin to grow again, new seedlings sprout out of the ground, plants grow new leaves and hibernating animals awake. To know in summer that it has long, usually sunny days and is the hottest season. To know that the movement of Earth in space gives us day and night. To know a day on Earth last 24 hours – how long it takes to orbit the sun To know that in the UK, the day length is longest at mid-summer (about 16 hours) To know that from the summer solstice the number of daylight hours decreases each day until mid-winter. To know that at winter's solstice the day length is about 8 hours. Key Vocabulary Earth's tilt, compare, seasons, weather patterns, daylight hours, months, changes, preparation, weather symbols, harvest, migration, hibernation, deciduous, wind direction, windsock, bud, rain gauge, growth, dormant, seedlings, heatwave, droughts Session 1: review prior learning Watch https://www.youtube.com/watch?v=VYpGBtR8Lbs BBC teach the great British year What are the seasons? Which months are in the seasons? Winter - December, January, February ; Spring - March, April, May ;Summer - June, July, August ; Autumn – September, October, November Season is defined by weather patterns and amount of daylight hours Look at the job of a meteorologist https://www.youtube.com/watch?v=gOAhy_U0vh8 Vocabulary: seasons, weather patterns, daylight hours, months Session 2: Recap: what are the seasons? Which order do they happen? What does a meteorologist do? LO: To observe the changes in Autumn https://www.youtube.com/watch?v=QvIh7nrEdeM Autumn Plants may begin to grow inactive. Animals might prepare themselves for the upcoming cold weather, storing food or travelling to warmer regions. Farmers harvest crops to eat over the colder months Need to go out for at least two sessions during Autumn to look at the change in leaves, plants and amount of animals seen • Introduce the weather symbols Record weather for 2-3 weeks (keep as will use to compare later on in the unit) and use to draw a pictogram and discuss what it shows Introduce bear to go home at weekends (or daily) the children must put it to bed when it gets dark and record the time in his book (use to compare daylight hours later)

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Need to go out for at least two sessions during Summer to look at the change in leaves, plants and amount of animals seen

- Record the weather for 2-3 weeks (rainfall, temperature and wind) use weather symbols
- Look at amount of insects visible, number of flowering plants
- Discuss daylight hours (longest daylight 16 hours)

N.B. dangerous to look directly at the sun

Vocabulary: heatwave, droughts

Session 6:

Recap: Changes in seasons

Lo: to compare the changes through the seasons

Changes due to the tilt of the Earth, when the Uk is closest to the sun, it is Summer and when furthest away, it is Winter.

Compare the data collected over the year

Month	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Hours of Daylight	13	11	9	8	8	10	12	14	15	16	16	14

Vocabulary: Earth's tilt, compare

Link to career scientist:

Meteorologist <u>https://www.youtube.com/watch?v=qOAhv_U0vh8</u>

Scientists who have helped develop understanding in this field: In 350 BC, Aristotle wrote Meteorology. He is believed to be the founder of metereology.