

The exercise will encourage the children to work with classmates they may not have worked with before and a mascot for the group will promote teamwork. The children will learn to estimate distances, develop reasoning and rationale

skills along with a better understanding of evolution. **+\_\_\_** KS2 Numeracy Lesson Plan 1 hour Equipment A blank section of wall Coloured pens and pencils for each group 8 sheets of A4 paper (you may want more for the Blu-tac Tape measure children's heights) **Key learning outcomes** Measuring shapes and heights Mathematical skills Averages Estimating distances Team working skills Knowledge of common species Evaluative and critical thinking Activity Time Divide the class into 8 groups. You might want to go round the room assigning each pupil to a number to mix up the groups. 10■ Write the following animals on the board: red deer, cow, heron, sheep, boar, fox, rabbit, mouse. mins Each group will pick one of these animals to draw on 1 sheet of paper but all animals must be used. This animal is now their group mascot. Can they think of a name for it? When each group has drawn and named their animal they will take it in turns to stick their drawing on the wall at the height they think their animal is (you may need to help with the 10 larger animals) mins Question their choices, ask 'why?' and make them think critically about their decision. Encourage logical thinking. (e.g. X is taller than Y so must go above it). Do not allow any input from other groups at this point. When each group has put their animal on the wall, ask if everyone is happy with the scale. 5 Lead a discussion allowing other students to say if they think any heights will be different to mins what has been suggested. ■ Using the tape measure, adjust the animals to the following heights: red deer-1.5m, cow - 1.2m, heron – 90cm, sheep – 65cm, boar – 50cm, fox – 35cm, rabbit – 20cm, mouse – 5cm 10 With the class, suggest why animals are different heights. For example, a stag's antlers are for rutting, so will make it taller; and that a mouse and rabbit are small to enable them access to mins where it lives: a burrow. A heron has long legs to lift it high to peer into the water and a long slender neck that can dart out and catch a fish. A boar is tall enough to crash through the underbrush in a forest, but is still close to the ground to forage for food. Measure the height of the children against your scale. Mark their height on the paper and let them know which animal they are as tall as. 245 Ask each child to write down the heights of each member of their group. mins Then ask the children to work out the average height of their group (the sum of each value divided by the total number of values). Homework Ask the children to pick another UK animal (that hasn't been used today) and to write possible reasons for its height.