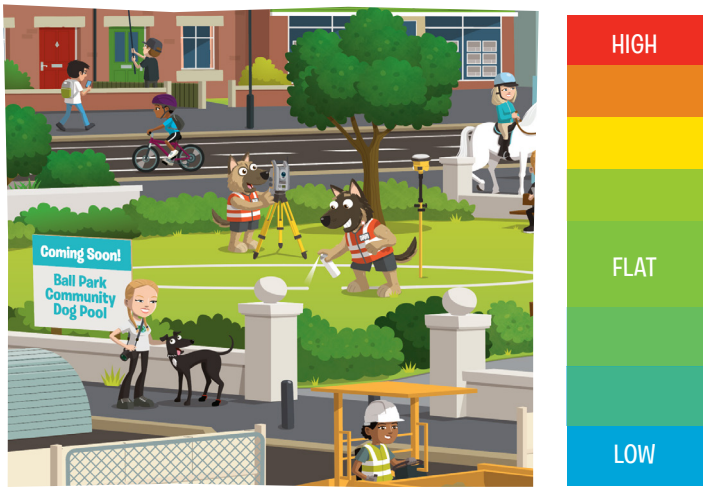
BUILDING THE *Future*

WELL HELLO! I'M ***PAT THE RIVER CAT*** FROM ***L.I. SMITH & ASSOCIATES (LIS)***, AND I'VE GOT SOME EXCITING PLANS FOR THE TOWN CENTRE IN THE GET KIDS INTO SURVEY PROPERTY DEVELOPMENT EXPLORATION POSTER! I COULD DO WITH THE ASSISTANCE OF SOME HANDY AND HELPFUL SURVEYORS... AND YOU -- IF YOU THINK YOU'VE GOT WHAT IT TAKES TO MAKE A CATFISH'S DREAMS COME TRUE! LET'S SEE WHAT YOU'VE GOT!

TASK 1: DOGGY DEVELOPMENTS

(GEOGRAPHY OBJECTIVES - GEOGRAPHICAL KNOWLEDGE AND FIELDWORK, MAPWORK)

While my ultimate plans involve helping out my finned friends, I can see exciting things are already developing for the canine crew! Work on the Ball Park Community Dog Pool is well underway: can you spot the surveyors using their LiDAR equipment to make a 3D map of the area? This will be important when the developers are working out where to dig out the pool's foundations, as well as planning any other contoured areas: some mounds and dips will add an extra layer of fun to games of fetch!



Can you use the Doggy Developments sheet to create a design for the Ball Park Community Dog Pool, which includes a doggy pool (of your own design - anything from a regular rectangle to a bone-shaped splash zone!), as well as some higher and lower areas for fun exercise. You can use a colour-coded contour shading system to show the elevation of key areas - just like surveyors do when they create 3D maps and topography scans. Deeper areas (like the pool) can be picked out in blue, while flat areas would be green. Hilly parts would go from yellow, through orange, to red, depending how high you make then - and how hard you want our four-legged friends to work to get to the top! You can also plan in any equipment you think would make for furry fun, like a dog-friendly climbing frame, or a pooch-only football pitch!

TASK 2: KNOW YOUR NEIGHBOURS

(GEOGRAPHY OBJECTIVES - PHYSICAL GEOGRAPHY & LOCATIONAL KNOWLEDGE / ART OBJECTIVES - PERSPECTIVE DRAWING)

It's always great to get to know the people living around you - and considering our building project will be right in the middle of town, it'd be great to make friends with the folk who'll share a fence with us! Although, there's one house in particular that gives me a chill in my gills... have you spotted it? The creepy crib that even the GeoSquad don't want to explore? Thankfully there's a fearless surveyor piloting a drone that has a camera fitted to its underside. That camera is using photogrammetry to create a photo-realistic model of the haunted house. This basically involves taking tons of pictures of a structure, then using special software to stitch them all together to create a model that you can move around virtually. I shudder to think what that camera is capturing though! Are you brave enough to imagine it? Can you use the Know Your Neighbours sheet to draw three different views of the house - and label the various spooky findings captured by the survey drone?

TASK 3: TOWN TIME TRAVEL

(GEOGRAPHY OBJECTIVES - LOCATIONAL GEOGRAPHY / MAP WORK - COMPUTING OBJECTIVES - MAKING EFFECTIVE SEARCHES)

Time travel is impossible, right? Not for surveyors! And I'm not talking about the GeoSquad and their time-splitting adventures - I'm talking about cartographers and map-makers, who've been mapping out the world for hundreds of years. It's possible to use that store of maps and images to travel back in time to see what a place looked like in the past; I've already done it before I started planning my project in the town! Did you know the office building with the solar panels was a biscuit factory only five years ago? Spaces like this can change quickly - but there's an easy way to see how a place has developed over time.

Use Street View on Google Maps to find a place you know well, then select the 'See more dates' option from the menu. This will show you photos taken from a range of dates - spanning a decade or more. How has the area changed? What has stayed the same? What do you think the reason for each change was? As they say, you can't know where you're going until you know where you've been!

TASK 4: KNOW YOUR CATFISH - DON'T GET CATFISHED!

(SCIENCE OBJECTIVES - ANIMAL BIOLOGY & HABITATS - LITERACY OBJECTIVES - FIND AND PRESENT NON-FICTION INFORMATION)

We're almost ready to move on to my big property development project - but before we do, I need to know that you know your stuff about a very specialist subject: me! You're obviously an expert on survey skills, but what do you know about catfish? At LIS we know plenty: Paris, Tennessee is the location of our headquarters, which also happens to be known for its World's Largest Fish Fry parade. There are catfish statues all over the town - something we'd like to include in our latest property development plans - along with something special for all our fishy friends!

Use the Know Your Catfish - Don't Get Catfished! sheet to find out some key facts which will come in handy for our final task!

TASK 5: USE THE NET TO CATCH SOME CUSTOMERS!

(GEOGRAPHY OBJECTIVES - GEOGRAPHICAL KNOWLEDGE AND PHYSICAL GEOGRAPHY / COMPUTING OBJECTIVES - WEBSITE DESIGN)

Well, the dog pool is coming along swimmingly, we've got to know our neighbours and the history of the town, and now you know all about LIS and our catfish craze! It's time to turn our big development plans into reality - by building a brand new aquarium right on those freshly-surveyed building foundations! It's going to be a great addition to the town, and we want as many people to come and visit as possible... and that's where you come in!

Can you use the Use the Net to Catch Some Customers sheet to design a webpage for the launch of the new aquarium? You'll need to include a catchy name for both the attraction and the website, as well as a picture of what you think the front of the building should look like (this will be a massive help to our design team!). You should also include a map of where to find the aquarium (use the buildings from the poster scene to imagine a bird's eye view of the town), as well as some fascinating facts taken from your research sheet to pique potential visitors' interests. You could even use some of the space to include links to other local businesses you can see in the scene - that will help us make friends in the community!

Let's net us some visitors!

TASK 1: DOGGY DEVELOPMENTS

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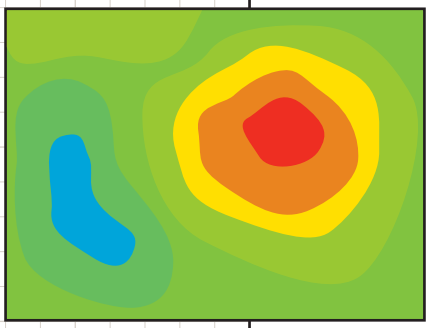
Can you use this sheet to create a design for the Ball Park Community Dog Pool, which includes a doggy pool (of your own design – anything from a regular rectangle to a bone-shaped splash zone!), as well as some higher and lower areas for fun exercise? You can also plan in any equipment you think would make for furry fun, like a dog-friendly climbing frame, or a pooch-only football pitch!



ELEVATION KEY:

TASK 2: KNOW YOUR NEIGHBOURS

Can you use this sheet to draw three different views of the haunted house – and label the various spooky findings captured by the survey drone?

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SIDE ELEVATION

REAR ELEVATION

SIDE ELEVATION

TASK 4:

KNOW YOUR CATFISH - DON'T GET CATFISHED!

Use this sheet to find out some key facts which will come in handy for our final task!

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RESEARCH QUESTION	YOUR ANSWER
What was the size of the largest catfish ever caught?	
Where are catfish most commonly found?	
What are the highest and lowest temperatures a catfish can survive?	
What is special about the walking catfish?	
What size is the smallest species of catfish?	
What are the differences between a catfish and a dogfish?	
How does the male catfish carry fertilised eggs?	
What is the average lifespan of a wels catfish?	