

21st Century Skills



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Stratford High School 21st Century Learning Expectations



Collection of Information

- Access information
- Organize information
- Evaluate sources
- Use information
- Align solution with task
- Cite all sources accurately



Collaboration

- Show independent initiative
- Assume shared responsibility
- Assist others in their roles
- Contribute ideas
- Keep an open mind
- Apply strategies
- Take a variety of roles
- Tolerate different viewpoints



Communication

- Listen actively
- Express ideas
- Use a variety of techniques
- Select appropriate media
- Use multiple forms of media



Creativity

- Know personal creative process
- Generate ideas
- Maximize creative efforts
- Demonstrate originality
- Learn from mistakes



Critical Thinking

- Ask clarifying questions
- Analyze complex systems
- Evaluate evidence
- Justify arguments
- Draw conclusions
- Reflect on learning
- Transfer problem-solving skills



Character

- Show consideration
- Respect everyone
- Show concern for others
- Embrace diversity
- Maintain positive values



21st Century Skills from a broader perspective

Learning and Innovation "The 4 C's"	Digital Literacy	Career and Life
Critical thinking & problem solving	Information literacy	Flexibility & adaptability
Creativity and innovation	Media Literacy	Initiative & self-direction
Communication	ICT Literacy	Social & cross-cultural interaction
Collaboration		Productivity & Accountability
 mm publications		Leadership & responsibility

Reasons why education needs to change...



B. Read the text and choose a, b, c or d.

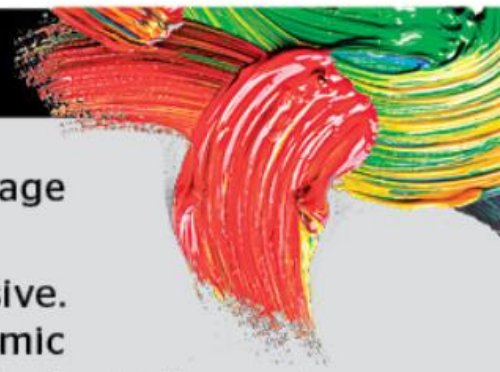
To deepen learning, get out the paints

'Logic will get you from A to B. Imagination will take you everywhere,' said once a brilliant physicist. These words can very well sum up the **1** ____ of a three-year study **2** ____ in fifteen schools in our district. The study compared students' performance in schools where the arts are taught in isolation for a few hours each week with schools where the arts are **3** ____ in the

daily teaching of language and the sciences.

The results are impressive.

4 ____, students' academic skills improved, with students themselves noticing how explaining ideas through art helped them understand the concepts more quickly and remember them for longer.



- | | | | |
|----------------------------|------------------------------|---------------------------|-----------------------|
| 1. a. data | b. findings | c. answers | d. discoveries |
| 2. a. operated | b. run | c. managed | d. conducted |
| 3. a. incorporated | b. entered | c. absorbed | d. featured |
| 4. a. Quite frankly | b. Among other things | c. For this reason | d. Of course |



Students with learning **5** ____ became more articulate and were able to **6** ____ their reading skills. Teachers were impressed with their students' increased ability to think outside the **7** ____ when facing science problems, as well as with the drop in detention time and increase

in attendance, as students related school to a positive learning and emotional experience. Parents reported that their children displayed a **8** ____ awareness of the power of images in advertisements and made better choices because of it.

5. a. inabilities

b. capabilities

c. abilities

d. disabilities

6. a. exceed

b. enhance

c. elevate

d. enlarge

7. a. limit

b. mind

c. box

d. issue

8. a. heightened

b. lengthy

c. valued

d. social



1. Read the text and choose a, b, c or d.

Adult Colouring Books

Colouring books are thought to promote concentration and patience, and allow the artist to safely release any **1** ____ and anxiety. The question seldom asked, though, is: why is such a beneficial activity **2** ____ popular only among young children?

According to several bestseller lists, it no longer is. Although colouring books for adults may **3** ____ a few eyebrows, more and more people are seeking them **4** ____ as a way to relax and de-stress. The principle is that colouring creates the same sense of fulfilment that is achieved by any process of deep thought; when the brain is preoccupied with a specific activity, negative feelings, such as anxiety and other generally **5** ____ thoughts, are forced out.



- | | | | |
|--------------------------|-----------------------|-----------------------|-----------------------|
| 1. a. jealousy | b. ignorance | c. frustration | d. inadequacy |
| 2. a. deeply | b. immensely | c. terribly | d. completely |
| 3. a. raise | b. arise | c. arouse | d. rise |
| 4. a. up | b. on | c. by | d. out |
| 5. a. pessimistic | b. conflicting | c. distressed | d. threatening |

Colouring books have an advantage over other art activities because they remove the 'paradox of choice', or the feeling of being **6** ____ when faced with unlimited options. An empty page can create stress; after all, it **7** ____ on the artist to first decide what to create and then create it to an acceptable standard. The outlines provided in colouring books, on the other hand, make the activity accessible to everyone, regardless of **8** ____ artistic ability.



6.a. excessive

b. overwhelmed

c. weighed

d. affected

7. a. relies

b. drains

c. depends

d. resolves

8.a. intangible

b. incompatible

c. integral

d. inherent



The Four C's *in Your Classroom*



Communication - Collaboration - Creativity - Critical Thinking

Integrating the 4 C's



21st Century Lesson Plan incorporating the skills

Aims: To learn how to use public transport in a particular setting
(vocabulary and conditionals)

Materials: paper, maps, colouring materials

Resources: <https://www.youtube.com/watch?v=10UY3WC4nDY>
https://www.youtube.com/watch?v=t8sjz_fCif0

1. General questions on travelling in Prague (How did you get to school?, What was the traffic like this morning?)
2. Teacher elicits some forms of transport
3. Play *Wipeout* (describe forms of transport) or worksheets or both
4. Can students add any other forms – show two videos
5. Set task to incorporate 4Cs

CITY TRANSPORT



Chairlift

Cable Car

Funicular Railway



Bike Sharing



Segway



Scooter



Tuk-tuk



Taxi

3 or 5 Door
Hatchback

Pick-up Truck



Coach



Articulated Bus
or Bendy Bus



Double-decker



Tram

Suburban
Railway



Cogwheel
Railway



Underground

Hydrofoil



Water Bus
or River Ride



A. Track the history of the red London double decker bus by putting these pictures in order from the oldest to the newest:



A.



B.



C.



D.



E.



F.

A. Now match the bus to the description:

1. Second newest bus with engine at the back and closing doors at the front ____.
2. Third oldest bus with roof and smaller upper deck than lower deck ____.
3. In 1910 the first motor buses had narrow wheels and people got wet in the rain ____.
4. Huge modern retro double decker with double stairs and double doors ____.
5. The most famous bus from the 1954 - 1968 and still used on one route today ____.
6. A two horse-power bus and the first double decker ever ____.

Transport Word Search






























V _____

C _____

T _____

tr _____

Sub _____

Sh _____

b _____

M _____

Pl _____

English-4kids.com

TRANSPORT

CROSSWORD



















7.

3.

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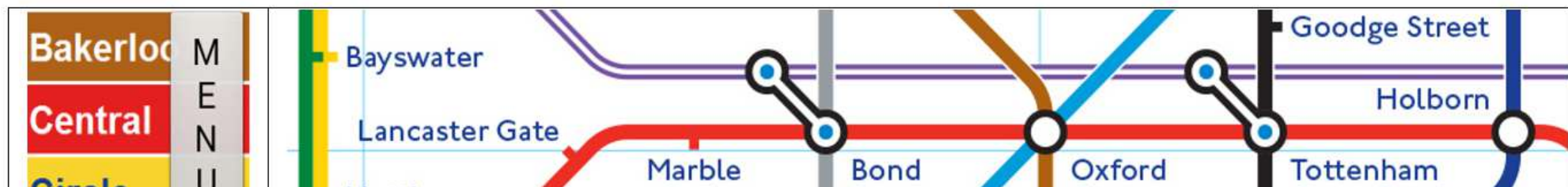
18.

19.

20.

D. Answer these questions below:

1. What is the quickest way to get to Green Park from High Street Kensington?
2. Where is the London Transport Museum?
3. Which line is it on?
4. What is unusual about District and Circle lines?
5. How many changes should you make to get from Covent Garden (LTM) to Big Ben?
6. The British Museum is at Tottenham Court Road – how many stations will the 'Tube' stop at from the Museum to South Kensington (shortest route)?
7. What are the least amount of stops between Westminster (BB) and Notting Hill Gate?
8. Do you think there is a quicker route but with more stops?



Bakerloo

Central

Circle

District

DLR

H'smith&City

Jubilee

Metropolitan

Northern

Overground

Piccadilly

Victoria

Waterloo&City

M

E

N

U





Next to the London Transport Museum at Covent Garden and full of 007's amazing gadgets.



Westminster RC Cathedral, in walking distance of Victoria Station and a great place for choir singing



The British Museum, probably the world's finest and in easy reach of Goodge Street, Holborn and even closer to Tottenham Court Road



The Natural History Museum is located nearby the Science Museum and the V&A Design Museum in South Kensington



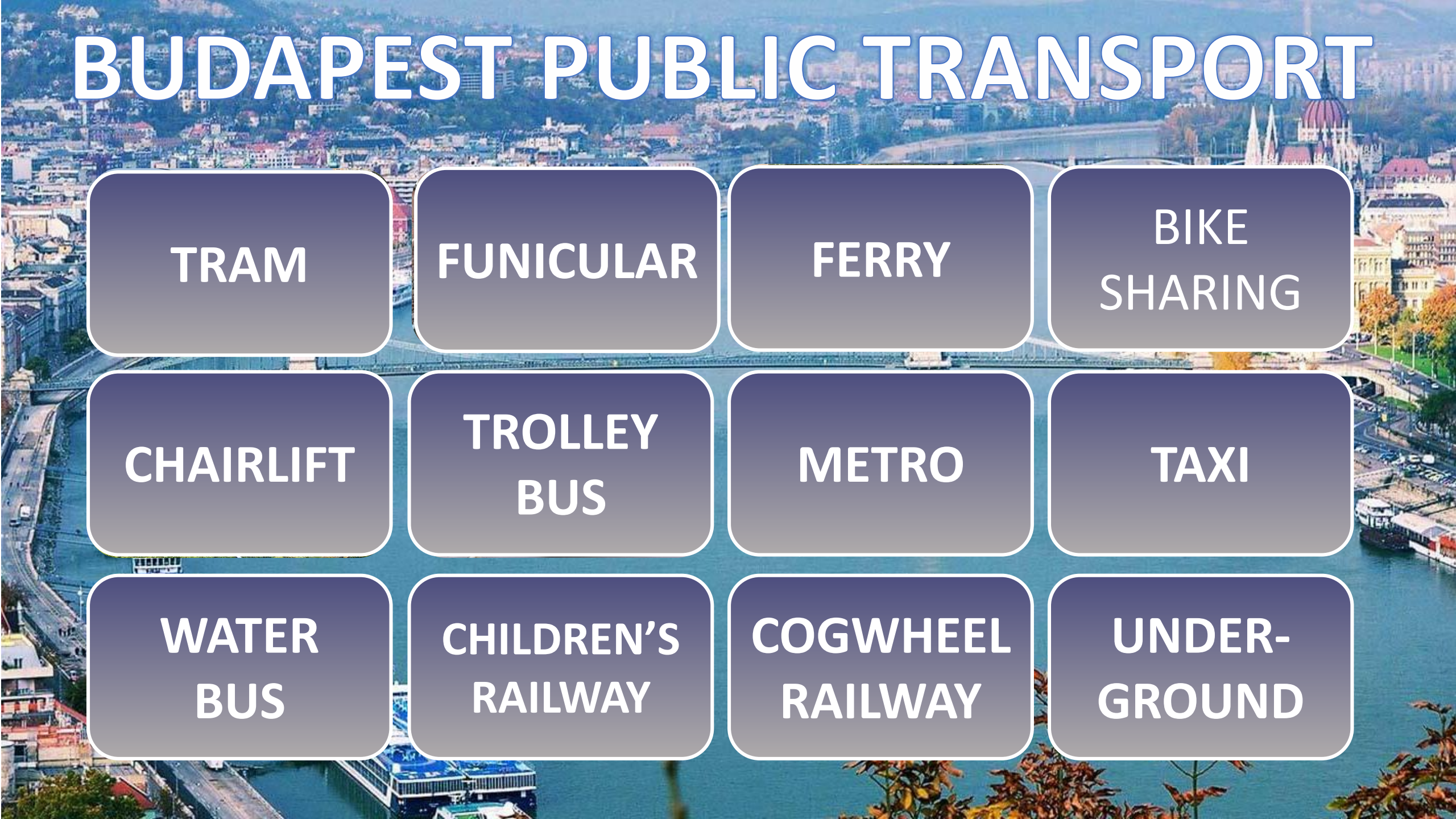
London's most famous department store situated in Knightsbridge, where you can buy everything



The best views of London are from The London Eye, which is only 5 minutes walk from Waterloo

In groups question each other about where to go and why, and how to get there

BUDAPEST PUBLIC TRANSPORT



TRAM

FUNICULAR

FERRY

BIKE
SHARING

CHAIRLIFT

TROLLEY
BUS

METRO

TAXI

WATER
BUS

CHILDREN'S
RAILWAY

COGWHEEL
RAILWAY

UNDER-
GROUND

Why, why and why???

STREETFILMS

SHORTIES

Why, why and why???

TASK

Design a transport system to solve the problems of smog and traffic

You can:

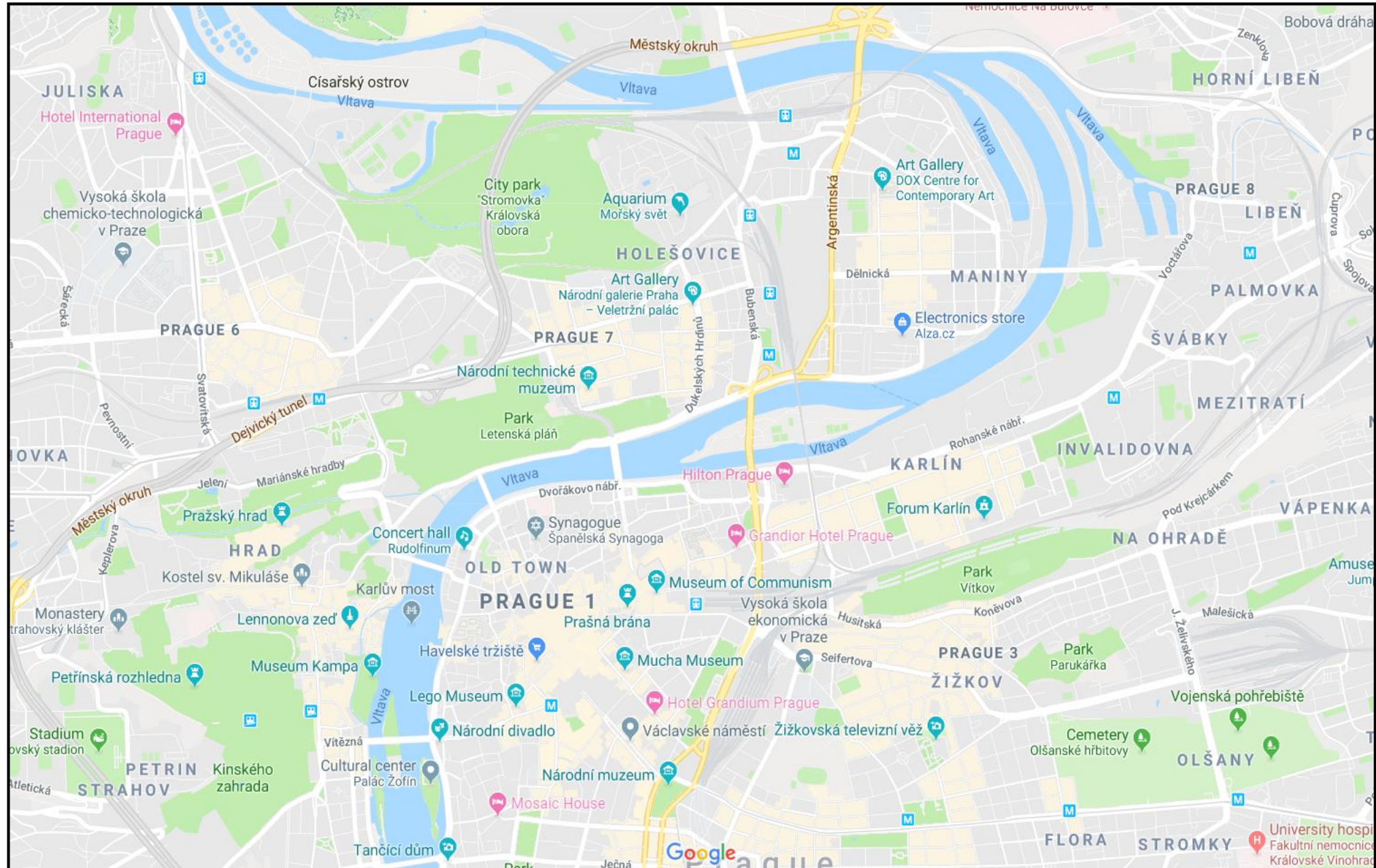
Make small changes to the map

Think below and above ground

Think of the public and the tourists

Must be feasible

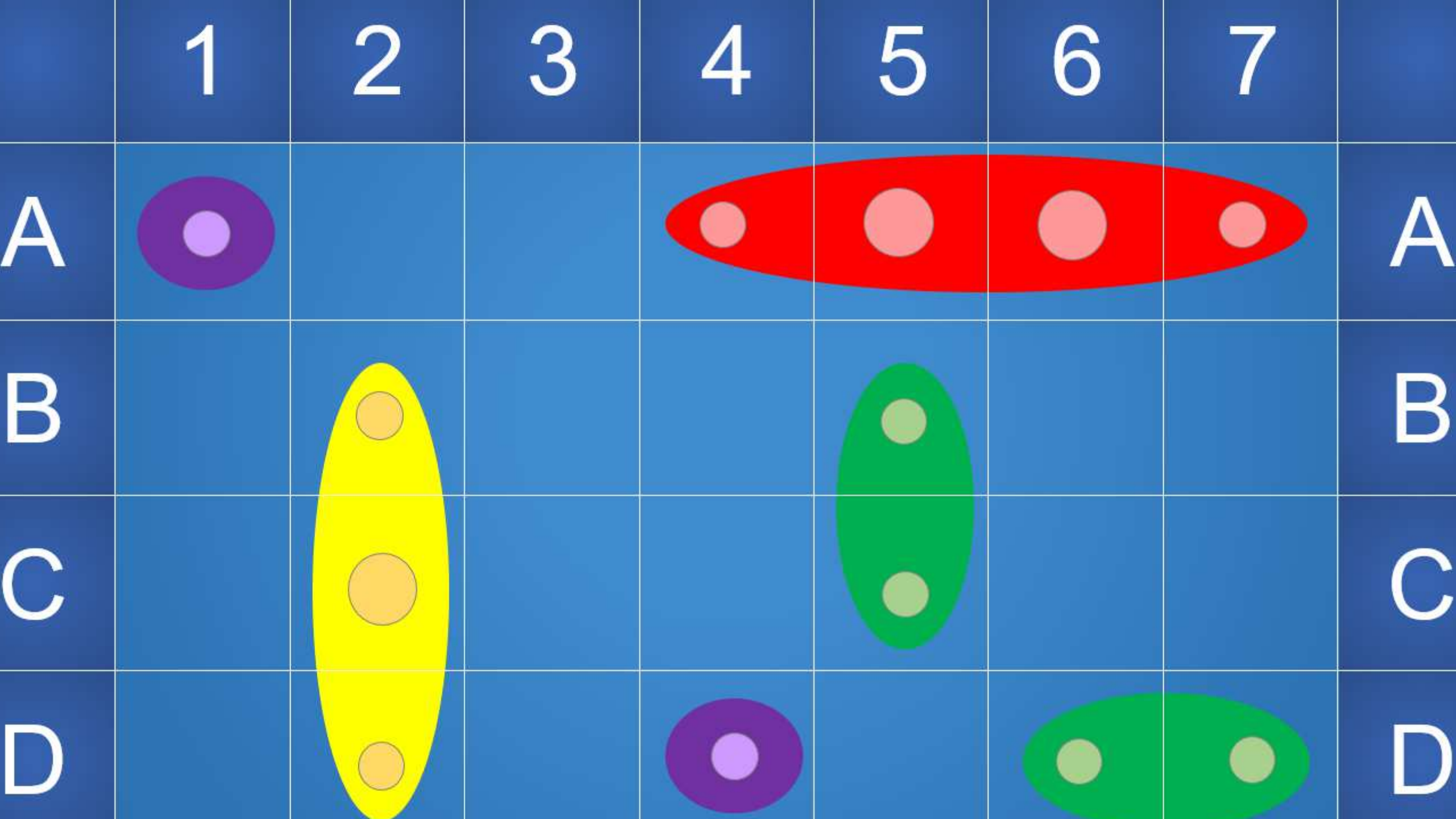
Make a key



Battleship

**All ships are
deployed!**





	1	2	3	4	5	6	7	
A	house boat	tube	travel	ferry	If	light- house	coast	A
B	taxi	cruise	trip	chair- lift	fare	cog- wheel railway	funicular railway	B
C	cab	crew	journey	Word	How	You	had	C
D	double decker	yacht	con- venient	sub- marine	What	coach	tram	D

Thank you for Critically
thinking about this
workshop, for your
Collaboration and
Communicating your
Creativity to me!

So I hope you have
Collected enough
information and
developed your
Character!



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A. What are these vehicles called? Find the name and write the number in the white box.

Single deck bus ☐ Sedan chair ☐ Tram ☐ Trolleybus ☐

Double decker bus ☐ Underground steam train ☐ Black cab ☐

Battle bus (vintage) ☐ Underground electric train ☐



B. Quiz on vehicles (Guess the answers and then go and search and see if you were right.)

- How many of the vehicles above use electricity?
- Which ones can you still see on the roads in London today?
- What is the universal name for a black cab?
- How many wheels are on the trolleybus?
- How many double decker vehicles can you see?
- Which forms of transport have no doors for passengers?
- Which is the oldest one?

C. Here are some words and numbers connected to the London Underground. Fill in this short text with them: *Tube* 5,000,000 electric 1.4 billion 1863 402 270

The London Underground is like a huge jumble of lines mixed up. But you can go anywhere very quickly. In fact, when it opened in _____ it became the fastest way to travel around London using steam trains. Much later it became _____ and then the nickname the _____ was used, because the tunnels looked like pipes. The number of stations increased and nowadays there are _____ on _____ Kilometres of railway track. Today it is one of the busiest transport systems in the world with _____ people using it daily and _____ passengers travelling on it every year.

D. Answer these questions below:

- What is the quickest way to get to Green Park from High Street Kensington?
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FutureFit Skill Domains

Solve

→ Problem-solving

Relate

→ Collaboration

Create

→ Creativity

Reflect

→ Self-awareness

Get Going

→ Initiative

Investigate

→ Critical thinking

Adapt

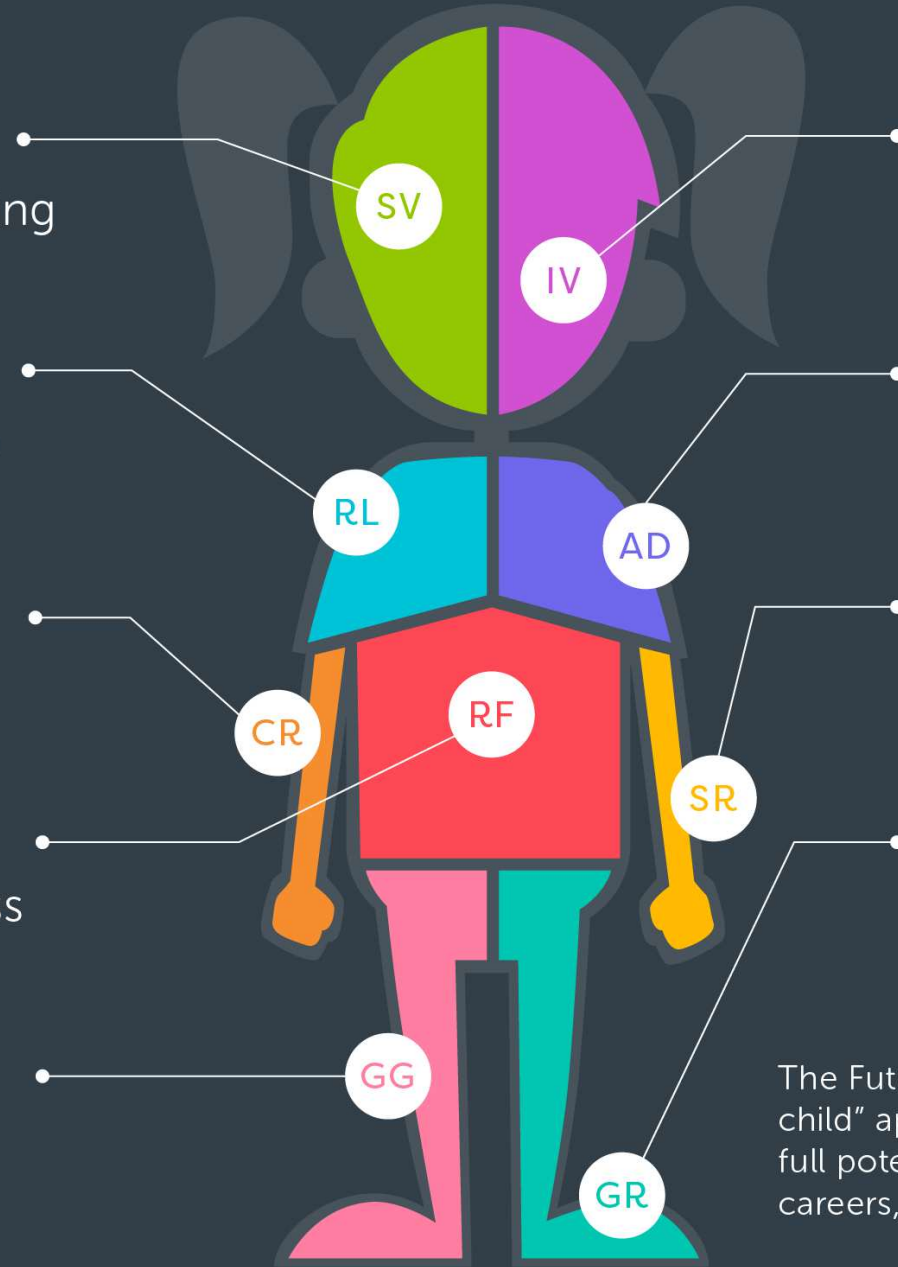
→ Persistence

Serve

→ Service mentality

Get Real

→ Real-world effectiveness



The FutureFit skill domains focus on a “whole child” approach – inspiring students to reach their full potential in the classroom, in college, in their careers, and in the community.

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