

THEORY OF COMPANIENT

OXFORD

COURSE COMPANION

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INTRODUCTION TO SUPPORT FOR TOK CONCEPTS

The TOK matrix (found here http://oxford.ly/tokmatrix) points you to where in the *TOK Course Companion* each of the 12 TOK concepts is discussed. This can help you to explore the book from a concept-based perspective.

CHAPTER	PAGERA	NGE HEAT	N ⁶ TOPIC / LESSON	ALL'S CONSTC WAT ALLOW DO TO DO TOT OF CONTROL OF CONSTC C
CHAPTER 1: KNOWLEDGE & THE KNOWER	2-3	s	Knowledge as a map for navigating the world: Usefulness, accuracy, and truth	
	4-9	s	Many knowledges and some ignorance: Putting the map together	
	9-10	Р	Authority and intellectual humility	
	11-2	Р	Strange and/or insulating beliefs	
	13-8	MT	Your intellectual autobiography: pluralism, responsibilities, and varying our metaphors of knowledge	
	18-9	E	Intellectual entitlement and problematic beliefs	
	20-1	E	Epistemic diversity and epistemic justice	
CHAPTER 2: (NOWLEDGE & POLITICS	22-27	S	Political everything? From unnatural disasters to the IB	
	28-30, 43-44	S, P, MT	Knowledge and citizenship: from the Overton Window to the master's tools	
	31-5, 45-6	P, MT	A post truth society?	
	35-9	Р	The danger of fair and balanced	
	39-43	Р	Filter bubbles and echo chambers	
	46-50	MT	Political digital subcultures	
	50-2	E	Pluralism vs no-platforming and the politics of respectability	
	52-57	E	Opportunities and concerns at the intersection of knowledge, politics, and technology	
CHAPTER 3: KNOWLEDGE & TECHNOLOGY	59-62	S	Humanity as a technological culture: From extraterrestrial communication to empires of infrastructure	
	64-7	Р	From technological determinism to Afrofuturism: Identity and technology	
	68-70	МТ	The sum of all human knowledge? Wikipedia and democratizing access and production of knowledge	
	75-7	МТ	Technological imag(in)ing: From the cosmos to war	
	67-8, 71-5, 80-4	P, MT, E	Using tech to know humans: Opportunities and challenges, insights and bias	
	78-80	E	The technological deck: Do artefacts have politics?	
	77-8, 81-6	MT, E	The moral reckoning of technology	
CHAPTER 4: KNOWLEDGE & LANGUAGE	88-91, 106-8	S, MT	Broadening our understanding of language: from quipu knots to non-human communication	
	92-3	S	The role of metaphor	
	93-6	Р	Linguistic and epistemic diversity: Repositories of knowledge	
	96-100	Р	Colonization, language loss, and English as the global lingua franca	
	100-1	МТ	Deaf culture and sign languages	
	101-3	MT	How do we know what we know about language?	
	104-6	MT	Problems with translation	
	108-10	E	Ethical dimensions of language: Political correctness, emotional register, and "just" language	
CHAPTER 5: KNOWLEDGE & IDIGENOUS SOCIETIES	112-5	S	Understanding Indigeneity and Indigenous knowledge: Local, political, holistic and dynamic	
	136-7	E	Voluntarily isolated peoples	
	116-8, 132	P, MT	Erasure and marginalization of Indigenous ways of knowing	
	118-21, 123-4	P, MT	Decolonizing knowledge: Indigneous research methodologies, education, and epistemic resurgence	
	121-2, 127-32	Р	Traditional Ecological Knowledge: Who knows about conservation?	
	124-7	P, MT	The Grammar of Animacy: Does some knowledge only belong to speakers of a particular language?	
Ľ	133-6	Е	The ethics and politics of representation, appreciation, appropriation	

These concepts are: Evidence, Certainty, Truth, Interpretation, Power, Justification, Explanation Objectivity, Perspective, Culture, Values and Responsibility. The TOK course does not provide definite answers about what these concepts are, but rather provides a range of meanings across different disciplines, intellectual traditions and knowledge communities.

In addition to the matrix, we have created one poster per TOK concept. These concept posters make clear links between the 12 TOK concepts and *TOK Course Companion* material. Each concept poster gives links to several examples and case studies, in order to help you explore further that concept using your *TOK Course Companion*.



1. EXPLORING EVIDENCE

TOK encourages you to examine the **evidence** provided in support of claims and to explore how the validity and reliability of evidence is established in the process of producing knowledge.

But what constitutes evidence, or its appropriateness as a method of justification? What causes evidence to be accepted or dismissed, used or misused? The answers to these questions are contested and vary across disciplines and cultures.

Explore the role of evidence in the following examples and case studies:



2. EXPLORING CERTAINTY

In TOK we frequently encounter the question of what constitutes enough evidence and/or knowledge to cross the threshold from uncertainty into **certainty**, and how this threshold varies across contexts.

How do we think about certainty in science, art, mathematics or religious knowledge, and what does that tell us about how certainty intersects with other concepts such as culture, values and power?

Explore the role of certainty in the following examples and case studies:

KNOWLEDGE AND RELIGION

153–4, 163 MT.E

The nature of religious knowledge: Belief, practice, contestability and doubt

How does religious knowledge and/or authority intersect with ideas of certainty, uncertainty, interpretation, doubt and contestability?

B AOK NATURAL SCIENCES



What is the role of certainty in scientific knowledge, and how has this changed over time?

AOK HUMAN SCIENCES



Chasing the rigour of natural science: Mathiness and physics envy in economics

Do some forms of knowledge seem to allow for certainty more than others?

3. EXPLORING TRUTH

In TOK we explore both how knowledge comes to be considered as true, and how we deal with the way in which facts and theories that were formerly considered to be true are dismissed. What is the relationship between knowledge and **truth**, and what does it mean to claim that what you know is true? How does this concept of truth intersect with the other concepts such as certainty, interpretation, power, culture and values?

Explore the role of truth in the examples and case studies below.



OXFORD IB DIPLOMA PROGRAMME THEORY OF KNOWLEDGE

KEY CONCEPT

4. EXPLORING INTERPRETATION

TOK asks us to consider the role of interpretation in a range of domains and processes, and raises questions such as when is it desirable to have multiple interpretations, versus when is having multiple interpretations a sign that the knowledge or fact is not well established?

We also come to appreciate that it matters, for better or worse, whose interpretation is in consideration and that some forms of knowledge are more open to interpretation than others. This concept is also involved in agreement and disagreement, and how facts are established, such as when we agree on the evidence, but interpret it differently.

Explore the role of interpretation, and how it intersects with other concepts such as evidence, power, perspective and objectivity in the examples and case studies below.

> KNOWLEDGE AND TECHNOLOGY What advantages, opportunities, challenges Using tech to know humans: Opportunities MT.E and risks are posed by and challenges, insights and bias using technology to interpret data about human behaviour and interactions? KNOWLEDGE AND LANGUAGE MT **Problems with translation** How does the role of interpretation in translation change depending on what is translated?

AOK HISTORY

Innovative methods in history: Technology, patterns and predictive knowledge

In what ways, and with what implications, is technology changing the role of the historian and the methods of interpretation in history?

How is the role of interpretation in the processes of knowledge in the arts similar or different from the other areas of knowledge? How does the pluralism of interpretations in art affect our ability to gain knowledge from it?



MT



71-5.

80 - 84

104-6

269 - 73

B

С

What is and isn't art: Readymades, artisanry, craft, women creatives and borderline cases

5. EXPLORING POWER

Power profoundly influences the processes of knowledge – production, acquisition, dissemination and application – and intersects with every other concept in ways that we can make visible through TOK. As an entry point, consider the relationship between power and knowledge, and what different knowers claim this relationship should be.

Many of the tensions and questions we can explore through this concept can be flipped and asked the other way around. Consider, for example, the extent to which knowledge confers power to a knower versus power conferring legitimacy and authority to establish one's claims as knowledge. How can and does knowledge disrupt power relations, structures and systems? How does power affect the various systems and processes of knowledge?

This concept asks us to think critically about:

- questions of access, such as who the knowledge keepers are and where knowledge is kept
- questions of transfer, such as where and how knowledge flows
- questions of responsibility, as knowers with varying degrees of knowledge and power.



6. EXPLORING JUSTIFICATION

Justification is another key concept in the production, transfer and acquisition of knowledge. TOK invites us to consider the basis for justification, for example whether a knower justifies their claims and/or beliefs on the basis of evidence, authority or interpretation. How do other concepts, such as power, culture and values complicate this? Justification also intersects with responsibility, for example when and how knowledge (or the lack of knowledge) serves as justification for action or inaction.



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7. EXPLORING EXPLANATION

In examining the relationship between knowledge and **explanation**, what often comes up is the question of whether one can know something without being able to explain it.

How and when are explanations of experience and observed phenomena an answer to (a) how things happen, and (b) why they happen? To what extent is this what we mean by knowledge? TOK also invites us to consider what makes a good explanation, an accurate explanation and how we can distinguish the relative merits of two different explanations.

Explore the role of explanation in the examples and case studies below.



8. EXPLORING OBJECTIVITY

Objectivity is popularly understood as an essential quality of knowledge, but TOK invites us to scrutinize when and why this is so, and when it might not be so. Questions of objectivity hold the challenge of whether, as individual knowers, we are able to overcome our limitations, biases and perspectives – and how.

To what extent do the methods of knowledge production contain sufficient checks and balances on human fallibility and bias to produce "objective" knowledge as a result?

Explore the role of objectivity in the examples and case studies below.

9. EXPLORING PERSPECTIVE

TOK invites our curiosity about the **perspectives** of others as well as our own. How, why and under what circumstances do different perspectives form, and what does this reveal about knowledge? Should all perspectives be supported by evidence, and under what conditions is it desirable or undesirable to have many different perspectives on a given issue?

Having multiple, partially overlapping, and sometimes contradictory perspectives coexisting in the same space presents advantages as well as challenges. Having a personal and civic ethic that cultivates these advantages and manages the challenges is called "pluralism" and is a foundation for modern liberal democracies around the world. "Pluralism" is threatened when the appetite, or capacity, for managing these challenges is diminished, for example when efforts at consensus-building and respectful dialogue between opposing perspectives are seen as unimportant or not worth it.

To what extent would you agree with the view that, collectively, we benefit from having multiple perspectives and multiple knowledges about the world? How important are other factors, such as autonomy and freedom, which afford these perspectives agency? What is lost when a perspective is lost?

10. EXPLORING CULTURE

Culture is more than just the "context" in which knowledge "happens", as both culture and knowledge can shape each other in important and profound ways. In what ways can different knowledge communities, such as astrophysicists, sculptors, modern historians and pure mathematicians, have a distinct culture that shapes and is shaped by their knowledge? One place of friction between knowledge and culture is the idea of universal knowledge that transcends culture; what are the implications of such a claim?

Explore the role of culture in the examples and case studies below.

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KEY CONCEPT

11. EXPLORING VALUES

In TOK we can explore the relationship between **values** and knowledge. For example, to what extent is knowledge value-free, or neutral, versus value-full? What values guide the acquisition, production, application and sharing of knowledge in different contexts?

12. RESPONSIBILITY

Through TOK we have the opportunity to consider our role and responsibilities as producers, sharers and appliers of knowledge in this world. How and why should we become aware of the influences on our development as knowers and our influence on others? What responsibilities accrue to us and others as members of different knowledge communities? To what extent do we have a fundamental responsibility to be knowledgeable, to be responsible with our knowledge and to be knowledgeable about our responsibilities?

Explore the role of responsibility in the examples and case studies below.

